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310 CMR 7.00: AIR POLLUTION CONTROL

Section

- 7.00: Statutory Authority; Legend; Preamble; Definitions
- 7.01: General Regulations to Prevent Air Pollution
- 7.02: U Plan Approval and Emission Limitations
- 7.03: U Plan Approval Exemption: Construction Requirements
- 7.04: U Fossil Fuel Utilization Facilities
- 7.05: U Fuels All Districts
- 7.06: U Visible Emissions
- 7.07: U Open Burning
- 7.08: U Incinerators
- 7.09: U Dust, Odor, Construction and Demolition
- 7.10: U Noise
- 7.11: U Transportation Media
- 7.12: U Source Registration
- 7.13: U Stack Testing
- 7.14: U Monitoring Devices and Reports
- 7.15: U Asbestos
- 7.16: U Reduction of Single Occupant Commuter Vehicle Use
- 7.18: U Volatile and Halogenated Organic Compounds
- 7.19: U Reasonably Available Control Technology (RACT) for Sources of Oxides of Nitrogen (NO_x)
- 7.24: U Organic Material Storage and Distribution
- 7.25: U Best Available Controls for Consumer and Commercial Products
- 7.26: Industry Performance Standards
- 7.29: Emissions Standards for Power Plants
- 7.30: MB Massport/Logan Airport Parking Freeze
- 7.31: MB City of Boston/East Boston Parking Freeze
- 7.33: MB City of Boston/South Boston Parking Freeze
- 7.34: Massachusetts NO_x Ozone Season Program (MassNO_x)
- 7.36: U Transit System Improvements
- 7.37: MB High Occupancy Vehicle Lanes
- 7.38: Certification of Tunnel Ventilation Systems in the Metropolitan Boston Air Pollution Control District
- 7.40: U Low Emission Vehicle Program
- 7.41: Large Entity Reporting Requirement
- 7.51: U Hearings Relative to Orders and Approvals
- 7.52: U Enforcement Provisions
- 7.54: U Large Combustion Emission Units
- 7.60: U Severability
- 7.70: Massachusetts CO₂ Budget Trading Program
- 7.71: Reporting of Greenhouse Gas Emissions
- 7.72: Reducing Sulfur Hexafluoride Emissions from Gas-insulated Switchgear
- 7.73: Reducing Methane Emissions from Natural Gas Distribution Mains and Services
- 7.74: Reducing CO₂ Emissions from Electricity Generating Facilities
- 7.75: Clean Energy Standard
- 7.76: Prohibitions on Use of Certain Hydrofluorocarbons in Refrigeration, Chillers, Aerosol Propellants, and Foam End-uses
 - Appendix A: EMISSION OFFSETS AND NONATTAINMENT REVIEW
 - Appendix B: U EMISSIONS BANKING, TRADING, AND AVERAGING
 - Appendix C: OPERATING PERMIT PROGRAM

STATUTORY AUTHORITY

All provisions of 310 CMR 7.00 are adopted pursuant to the authority granted by M.G.L. c. 111, §§ 142A through 142J, M.G.L. c. 21N, and Sections 56, 58, 60 and 102C of Chapter 8 of the Acts of 2021. In addition, 310 CMR 7.08(2) is adopted pursuant to the authority granted by M.G.L. c. 111, § 150A and the following provisions of 310 CMR 7.00 are adopted pursuant to the authority granted by M.G.L. c. 21C, §§ 4 and 6 and by M.G.L. c. 21E, § 6.

- (1) The following definitions in 310 CMR 7.00:
 - (a) COMBUSTION EFFICIENCY (C.E.).
 - (b) FUEL, including the definition of HAZARDOUS WASTE FUEL and USED OIL FUEL.
 - (c) GENERATOR.
 - (d) HAZARDOUS WASTE.
 - (e) HAZARDOUS WASTE INCINERATOR.
 - (f) PRINCIPAL ORGANIC HAZARDOUS CONSTITUENT (POHC).
 - (g) PRODUCTS OF INCOMPLETE COMBUSTION (PICs).
 - (h) RECYCLABLE MATERIAL.
 - (i) REGULATED RECYCLABLE MATERIAL.
 - (j) SPACE HEATER, including the definition of USED OIL FUEL FIRED SPACE HEATER.
 - (k) TOTAL HALOGENS.
 - (I) UNUSED WASTE OIL.
 - (m) USED OIL FUEL.
 - (n) USED WASTE OIL.
 - (o) WASTE.
- (2) 310 CMR 7.04(9).
- (3) 310 CMR 7.05(7), (8), and (9) and 310 CMR 7.05(8): *Table 3*.
- (4) 310 CMR 7.08(4).

LEGEND

The following symbols will indicate, in the attached 310 CMR 7.00: *Air Pollution Control*, which Air Pollution Control Districts they apply to:

U = Universal, all districtsMB = Metropolitan BostonB = BerkshirePV = Pioneer ValleyCM = Central MassachusettsSM = Southeastern MassachusettsMV = Merrimack ValleySM = Southeastern Massachusetts

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

Burlington

NE

MB

Everett

NE

MB

7.00: continued						
	Massachusetts Cities & Towns					
			oonding DEP			
	Regional Offices and Air Pollution Control Districts					
City/Town	Region	District	City/Town	Region	District	
<u>r</u>	<u> </u>		<u>r</u>	<u> </u>		
	<u>A</u>			<u>C</u>		
Abington	SE	MB	Cambridge	NE	MB	
Acton	С	MB	Canton	S	MB	
Acushnet	SE	SM	Carlisle	NE	MV	
Adams	W	В	Carver	SE	SM	
Agawam	W	PV	Charlemont	W	PV	
Alford	W	В	Charlton	С	СМ	
Amesbury	NE	MV	Chatham	SE	SM	
Amherst	W	PV	Chelmsford	NE	MV	
Andover	NE	MV	Chelsea	NE	MB	
Arlington	NE	MB	Cheshire	W	В	
Ashburnham	C	CM	Chester	W	PV	
Ashby	C	CM	Chesterfield	W	PV	
Ashfield	W	PV	Chicopee	W	PV	
Ashland	NE	MB	Chilmark	SE	SM	
Athol	W	CM	Clarksburg	W	B	
Attleboro	SE	SM	Clinton	Ċ	CM	
Auburn	C	CM	Cohasset	S	MB	
Avon	SE	MB	Colrain	W	PV	
Ayer	C	MV	Concord	NE	MB	
1 tyoi	C		Conway	W	PV	
	B		Cummington	W	PV	
	<u>D</u>		Cullington	••	1 /	
Barnstable	SE	SM		D		
Barre	С	СМ				
Becket	W	В	Dalton	W	В	
Bedford	NE	MB	Danvers	NE	MB	
Belchertown	W	PV	Dartmouth	SE	SM	
Bellingham	С	SM	Dedham	NE	MB	
Belmont	NE	MB	Deerfield	W	PV	
Berkley	SE	SM	Dennis	SE	SM	
Berlin	С	СМ	Dighton	SE	SM	
Bernardston	W	PV	Douglas	С	СМ	
Beverly	NE	MB	Dover	NE	MB	
Billerica	NE	MV	Dracut	NE	MV	
Blackstone	С	СМ	Dudley	С	СМ	
Blandford	W	PV	Dunstable	С	MV	
Bolton	С	MB	Duxbury	SE	MB	
Boston	NE	MB	5			
Bourne	SE	SM		E		
Boxborough	С	MB		_		
Boxford	NE	MV	E. Bridgewater	SE	MB	
Boylston	С	СМ	E. Longmeadow	W	PV	
Braintree	S	MB	E. Brookfield	С	СМ	
Brewster	SE	SM	Eastham	SE	SM	
Bridgewater	SE	MB	Easthampton	W	PV	
Brimfield	W	PV	Easton	SE	MB	
Brockton	SE	MB	Edgartown	SE	SM	
Brookfield	C	CM	Egremont	W	B	
Brookline	NE	MB	Erving	W	PV	
Buckland	W	PV	Essex	NE	MB	
Durlington	NE	MD	Everett	NE	MD	

<u>City/Town</u>	Region	District	City/Town	Region	<u>District</u>
	<u>F</u>			Ī	
Fairhaven Fall River	SE SE	SM SM	Ipswich	NE	MB
Falmouth Fitchburg	SE SE C	SM SM CM		<u>K</u>	
Florida Foxborough	W SE	B SM	Kingston	SE	SM
Framingham Franklin	NE C	MB SM		L	
Freetown	SE	SM	Lakeville Lancaster	SE C	SM CM
	<u>G</u>		Lanesborough Lawrence	W NE	B MV
Gardner	С	СМ	Lee	W	B
Gay Head	SE	SM	Leicester	С	СМ
Georgetown	NE	MV	Lenox	W	В
Gill	W	PV	Leominster	С	СМ
Gloucester	NE	MB	Leverett	W	PV
Goshen	W	PV	Lexington	NE	MB
Gosnold	SE	SM	Leyden	W	PV
Grafton	Č	CM	Lincoln	NE	MB
Granby	W	PV	Littleton	C	MV
Granville	W	PV	Longmeadow	W	PV
Greenfield	W	PV	Lowell	NE	MV
Groton	С	MV	Ludlow	W	PV
Groveland	NE	MV	Lunenburg	С	СМ
Gt. Barrington W	В		Lynn	NE	MB
8			Lynnfield	NE	MB
	H				
				M	
Hadley	W	PV			
Halifax	SE	SM	Malden	NE	MB
Hamilton	NE	MB	Manchester	NE	MB
Hampden	W	PV	Mansfield	SE	SM
Hancock	W	В	Marblehead	NE	MB
Hanover	SE	MB	Marion	SE	SM
Hanson	SE	MB	Marlborough	C	MB
Hardwick	W	CM	Marshfield	SE	MB
Harvard	C	CM	Mashpee	SE	SM
Harwich	SE	SM	Mattapoisett	SE	SM
Hatfield	W	PV	Maynard	C	MB
Haverhill	NE	MV	Medfield	C	MB
Hawley	W	PV	Medford	NE	MB
Heath	W	PV	Medway	С	SM
Hingham	S	MB	Melrose	NE	MB
Hinsdale	W	В	Mendon	С	СМ
Holbrook	S	MB	Merrimac	NE	MV
Holden	С	CM	Methuen	NE	MV
Holland	W	PV	Middleborough	SE	SM
Holliston	С	MB	Middlefield	W	PV
Holyoke	W	PV	Middleton	NE	MB
Hopedale	С	CM	Milford	С	SM
Hopkinton	С	MB	Millbury	С	CM
Hubbardston	С	CM	Millis	С	MB
Hudson	С	MB	Millville	С	СМ
Hull	S	MB	Milton	NE	MB
Huntington	W	PV			

City/Town	Region	<u>District</u>	City/Town	Region	District
Monroe	W	PV	Plainfield	W	PV
Monson	W	PV	Plainville	SE	SM
Montague	W	PV	Plymouth	SE	SM
Monterey	W	B	Plympton	SE	SM
Montgomery	W	PV	Princeton	C	CM
Mt. Washington	W	B	Provincetown	SE	SM
		D		51	5111
	<u>N</u>			Q	
N. Attleborough	SE	SM	Quincy	NE	MB
N. Brookfield	С	CM			
N. Reading	NE	MB		<u>R</u>	
Nahant	NE	MB			
Nantucket	SE	SM	Randolph	S	MB
Northampton	W	PV	Raynham	SE	SM
Northborough	С	CM	Reading	NE	MB
Natick	NE	MB	Rehoboth	SE	SM
Needham	NE	MB	Revere	NE	MB
New Salem	W	PV	Richmond	W	В
New Braintree	С	CM	Rochester	SE	SM
New Ashford	W	В	Rockland	SE	MB
New Marlborough	W	В	Rockport	NE	MB
New Bedford	SE	SM	Rowe	W	PV
Newbury	NE	MV	Rowley	NE	MV
Newburyport	NE	MV	Royalston	W	CM
Newton	NE	MB	Russell	W	PV
Norfolk	С	MB	Rutland	С	CM
North Adams	W	В			
North Andover	NE	MV		<u>S</u>	
Northbridge	С	CM			
Northfield	W	PV	Salem	NE	MB
Norton	SE	SM	Salisbury	NE	MV
Norwell	SE	MB	Sandisfield	W	В
Norwood	S	MB	Sandwich	SE	SM
			Saugus	NE	MB
	<u>O</u>		Savoy	W	В
			Scituate	SE	MB
Oak Bluffs	SE	SM	Seekonk	SE	SM
Oakham	С	CM	Sharon	SE	MB
Orange	W	PV	Sheffield	W	В
Orleans	SE	SM	Shelburne	W	PV
Otis	W	В	Sherborn	NE	MB
Oxford	С	CM	Shirley	C	CM
Palmer	W	PV	Shrewsbury	С	СМ
Paxton	С	CM	Shutesbury	W	PV
Peabody	NE	MB	Somerset	SE	SM
Pelham	W	PV	Somerville	NE	MB
Pembroke	SE	MB	South Hadley	W	PV
Pepperell	C	MV	Southampton	W	PV
Peru	W	B	Southborough	C	MB
Petersham	W	CM	Southbridge	C	CM
Phillipston	C	CM	Southwick	W	PV
Pittsfield	W	В	Spencer	С	СМ

City/Town	Region	<u>District</u>	City/Town	<u>Region</u>	<u>District</u>
Springfield	W	PV	Watertown	NE	MB
Sterling	С	СМ	Wayland	NE	MB
Stockbridge	W	В	Webster	С	СМ
Stoneham	NE	MB	Wellesley	NE	MB
Stoughton	SE	MB	Wellfleet	SE	SM
Stow	С	MB	Wendell	W	PV
Sturbridge	С	СМ	Wenham	NE	MB
Sudbury	NE	MB	W. Brookfield	С	СМ
Sunderland	W	PV	W. Stockbridge	W	В
Sutton	С	СМ	W. Springfield	W	PV
Swampscott	NE	MB	West Newbury	NE	MV
Swansea	SE	SM	W. Bridgewater	SE	MB
			West Tisbury	SE	SM
	<u>T</u>		West Boylston	С	СМ
	—		Westborough	С	СМ
Taunton	SE	SM	Westfield	W	PV
Templeton	С	СМ	Westford	Ν	MV
Tewksbury	NE	MV	Westhampton	W	PV
Tisbury	SE	SM	Westminster	С	СМ
Tolland	W	PV	Weston	NE	MB
Topsfield	NE	MB	Westport	SE	SM
Townsend	С	СМ	Westwood	NE	MB
Truro	SE	SM	Weymouth	S	MB
Tyngsborough	Ν	MV	Whately	W	PV
Tyringham	W	В	Whitman	SE	MB
			Wilbraham	W	PV
	U		Williamsburg	W	PV
			Williamstown	W	В
Upton	С	CM	Wilmington	NE	MB
Uxbridge	С	CM	Winchester	NE	MB
			Winchendon	С	CM
	W		Windsor	W	В
			Winthrop	NE	MB
Wakefield	NE	MB	Woburn	NE	MB
Wales	W	PV	Worcester	С	CM
Walpole	S	MB	Worthington	W	PV
Waltham	NE	MB	Wrentham	SE	SM
Ware	W	PV			
Wareham	SE	SM		Y	
Warren	W	CM			
Warwick	W	PV	Yarmouth	SE	SM
Washington	W	В			

PREAMBLE

The purpose of 310 CMR 7.00 is to prevent the occurrence of conditions of air pollution where such do not exist and to facilitate the abatement of conditions of air pollution where and when such occur. They are designed to attain, preserve, and conserve the highest possible quality of the ambient air compatible with needs of society.

DEFINITIONS

When used in 310 CMR 7.00 or in communications, notices or orders relative thereto, the following words and phrases shall have the meanings ascribed to them below:

<u>12-MONTH PERIOD, 12-MONTH ROLLING PERIOD, ROLLING 12-MONTH PERIOD,</u> <u>CONSECUTIVE 12-MONTH TIME PERIOD OR CONSECUTIVE 12-MONTH PERIOD</u> means a consecutive rolling 12-month period over which emissions are calculated for the purpose described by the regulatory section in which this phrase appears. A rolling 12-month period is calculated monthly starting with the month just ended and counting back 12 months (*e.g.*, December through the previous January, January through the previous February, February through the previous March, *etc.*)

<u>ABOVEGROUND STORAGE TANK or AST</u>, as used in 310 CMR 7.24(3) and (6), means a motor vehicle fuel storage tank that is intended for fixed installations, without backfill, that is located above or below grade.

ACT means the Federal Clean Air Act, 42 U.S.C. 7401 et seq.

<u>ACTUAL CONSTRUCTION</u> means in general, initiation of physical on-site construction activities of any facility subject to the requirements of 310 CMR 7.00, which are of a permanent nature. Such activities include, but are not limited to, installation of building supports and foundations, laying underground pipework and construction of permanent structures.

<u>ACTUAL EMISSIONS</u> means the rate that an emission unit or facility discharges air contaminants into the ambient air. This can be calculated on a daily, weekly, monthly, ozone season, 12-month rolling, calendar year basis or other time period as determined by the requirements of the applicable regulation(s). Actual emissions shall be calculated using the unit's actual operating hours, production rates, and types of materials processed, stored, or combusted during the selected time period including the efficiency of pollution control equipment, if present.

<u>ADHESION PRIMER</u> means a coating that is applied to a polyolefin part to promote the adhesion of a subsequent coating. An adhesion primer is clearly identified as an adhesion primer or adhesion promoter on its accompanying safety data sheet.

<u>ADHESION PROMOTER</u> means a coating designed to facilitate the bonding of a primer or topcoat on surfaces such as trim moldings, door locks, and door sills, where sanding is impracticable, and on plastic parts and the edges of sanded areas.

<u>ADMINISTRATOR</u> means the administrator of the U.S. Environmental Protection Agency or his or her designee.

AEROSOL means a system of solid or liquid particles dispersed in a gas.

<u>AEROSPACE MANUFACTURING AND REWORK OPERATIONS</u> means manufacturing, rework, repair or specialized service (such as chemical milling, rather than actual component production or assembly), of an aerospace vehicle or component including, but not limited to, any fabricated part, processed part, assembly of parts, or completed unit of any aircraft including, but not limited to, airplanes, helicopters, missiles, rockets, and space vehicles. In general, aerospace manufacturing and rework facilities are covered by the SIC codes 3720, 3721, 3724, 3728, 3760, 3761, 3764, 3769, 4512, 4581 and 9711. However, facilities classified under other SIC codes may also perform operations that meet the definition of aerospace manufacturing and rework operations.

<u>AFFECTED FACILITY</u> for the purposes of 310 CMR 7.16, means any employment facility at which 250 or more employees are commuters, or any educational facility at which 1000 or more persons are commuters.

<u>AGRICULTURE</u> for the purpose of 310 CMR 7.07, means those practices involved with the cultivation of soil for purposes of crop production and/or the raising of livestock when such crops are produced primarily for commercial foodstuffs and such livestock are raised primarily for commercial foodstuffs or work purposes.

<u>AIR</u> means atmosphere.

<u>AIR CONTAMINANT</u> means any substance or man-made physical phenomenon in the ambient air space and includes, but is not limited to, dust, flyash, gas, fume, mist, odor, smoke, vapor, pollen, microorganism, radioactive material, radiation, heat, sound, any combination thereof, or any decay or reaction product thereof.

<u>AIR CONTAMINATION SOURCE</u> means any place at or from which any air contaminant is emitted to the ambient air space.

<u>AIR POLLUTION</u> means the presence in the ambient air space of one or more air contaminants or combinations thereof in such concentrations and of such duration as to:

(a) cause a nuisance;

(b) be injurious, or be on the basis of current information, potentially injurious to human or animal life, to vegetation, or to property; or

(c) unreasonably interfere with the comfortable enjoyment of life and property or the conduct of business.

<u>AIR-ASSISTED AIRLESS SPRAY</u> means an airless spray with a compressed air jet at the nozzle opening to atomize a coating.

<u>AIR-DRIED COATING</u> for purposes of 310 CMR 7.18(11)(d)2.a. and b., means a coating that is cured at a temperature below 90°C (194°F).

<u>AIR-DRIED COATING</u> for purposes of 310 CMR 7.18(21), means a coating that is dried by the use of air or forced warm air at temperatures below 90° C (194° F).

<u>AIRLESS SPRAY</u> means a spray coating method in which the coating is atomized by forcing it through a small nozzle opening at high pressure. The coating is not mixed with air before exiting from the nozzle opening.

<u>ALCOHOL SUBSTITUTE</u> means non-alcohol fountain solution additives including, but not limited to, glycol ethers or ethylene glycol.

<u>ALTER OR ALTERATION</u> means any physical change or change in the method of operation (including modification or reconfiguration of an emissions unit, change in the raw material used or change in the operating rate) which would result in an increase in potential emissions or an increase in ambient air impacts (*i.e.*, reduced stack height).

<u>ALTERNATIVE FUEL</u> means any fuel designated as such on an annual list issued by the Department, including methanol, denatured ethanol, and other alcohols; mixtures containing 85% or more by volume of methanol, denatured ethanol, and other alcohols with gasoline or other fuels; natural gas; liquified petroleum gas; hydrogen, coal-derived liquid fuels; fuels (other than alcohol) derived from biological materials; electricity (including electricity from solar energy); and any other fuel that the Department determines is substantially not petroleum.

<u>AMBIENT AIR SPACE</u> means the unconfined space occupied by the atmosphere above the geographical area of the District which includes the air outside a facility or structure.

<u>ANNUAL CAPACITY FACTOR</u> means the ratio between the actual heat input to the emission unit during the calendar year and the potential heat input to the emission unit had it been operated for 8,760 hours during a calendar year at the rated capacity; rated capacity for combustion turbines shall be at ISO (the International Organization for Standardization) conditions (*i.e.*, 59° Fahrenheit, 60% relative humidity, and 101.3 kilopascals pressure).

<u>ANTIFOULANT COATING</u> means any coating applied to the underwater portion of a pleasure craft to prevent or reduce the attachment of biological organisms, and registered with the United States Environmental Protection Agency (EPA) as a pesticide under the Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C. Section 136).

<u>ANTI-GLARE SAFETY COATING</u> means a low gloss coating formulated to eliminate glare for safety purposes on interior surfaces of a vehicle, as specified under the U.S. Department of Transportation Motor Vehicle Safety Standards.

<u>APPLICABLE REQUIREMENT</u> for the purposes of 310 CMR 7.02(12), means any emission limitation, standard, term, condition or other requirement provided for in a Department regulation, a plan approval, an emission control plan or other document issued by the Department pursuant to 310 CMR 7.00.

<u>APPLICATION AREA</u> means any area where a coating is applied including, but not limited to, application by dipping, rolling, spraying or flowcoating techniques.

<u>AQUEOUS CLEANER</u> means a cleaning fluid or device using a cleaning fluid that is composed of soap and/or other water-soluble materials in a water solution.

<u>ASPHALT</u> means a dark-brown to black cementitious material (solid, semi-solid, or liquid) in which the predominating constituents are bitumens which occur in nature as such, or which are obtained as residue in refining petroleum.

<u>ATTAINMEMT AREA</u> means any area determined by the Administrator as one in which the ambient air concentration for a criteria pollutant does not exceed a primary or a secondary National Ambient Air Quality Standard.

<u>AUTOMOBILE</u> means a motor vehicle capable of carrying no more than 12 passengers.

<u>AUTOMOTIVE EXTERIOR FLEXIBLE PARTS</u> means flexible plastic parts used in the manufacture or repair of exterior components of automobiles.

<u>AUTOMOTIVE EXTERIOR RIGID (NON-FLEXIBLE) PARTS</u> means rigid plastic parts used in the manufacture or repair of exterior components of automobiles.

<u>AUTOMOTIVE INTERIOR PARTS</u> means plastic parts used in the manufacture or repair of interior components of automobiles.

<u>AUTOMOTIVE REFINISHING FACILITY</u> means any facility at which the interior or exterior bodies of automobiles, motorcycles, trucks, mobile equipment, or vans are repainted. This definition includes refinishing operations that travel to various locations, that refinish new vehicles damaged in transit before their initial sale, and that refinish aftermarket vehicles.

<u>AUTOMOTIVE/TRANSPORTATION COATING</u> means the coating of any plastic part that is or shall be assembled with other parts to form an automobile or truck.

<u>Btu</u> means British thermal unit, the amount of heat necessary to raise the temperature of one pound of water from 39° F to 40° F.

<u>BAKED COATING</u> means a coating that is cured at a temperature that is at or above 90° C (194°F).

<u>BAKERY</u> means a facility consisting of one or more ovens for the baking of bread or other yeast leavened products.

<u>BASE DATE</u> means the date on which the base number of single occupant commuter vehicles at a particular employment facility or educational institution must be determined.

<u>BEST AVAILABLE CONTROL TECHNOLOGY</u> means an emission limitation based on the maximum degree of reduction of any regulated air contaminant emitted from or which results from any regulated facility which the Department, on a case-by-case basis taking into account energy, environmental, and economic impacts and other costs, determines is achievable for such facility through application of production processes and available methods, systems and techniques for control of each such contaminant. The best available control technology determination shall not allow emissions in excess of any emission standard established under the New Source Performance Standards, National Emission Standards for Hazardous Air Pollutants or under any other applicable section of 310 CMR 7.00, and may include a design feature, equipment specification, work practice, operating standard, or combination thereof.

<u>BIOTECHNOLOGY</u> means the use of cellular and molecular processes from living systems to make or assist in making products.

BLACK COATING means a coating which meets the following criteria:

(a) Maximum lightness: 23 units.

(b) Saturation: less than 2.8, where saturation equals the square root of $A^2 + B^2$.

These criteria are based on Cielab color space, 0/45 geometry. For spherical geometry, specular included, maximum lightness is 33 units.

<u>BLANKET</u> means a rubber-covered cylinder that receives the printed image from the plate cylinder and transfers the image to the substrate.

<u>BOSTON METROPOLITAN PLANNING ORGANIZATION</u> means the organization designated for maintaining a continuing, cooperative, and comprehensive (3C) transportation planning process under Section 134 of the Federal Aid Highway Act and Section 5303 of the Federal Transit Act in the Boston metropolitan region.

<u>BOSTON TRANSPORTATION DEPARTMENT</u> means the agency within the City of Boston responsible for transportation and traffic-related activities including the regulation of off-street parking spaces in the City under M.G.L. c. 148, § 56.

<u>BOTTOM FILLING</u> means the filling of a tank truck or stationary storage tank through an opening which is flush with the bottom of the tank.

<u>BUBBLE</u> means an alternative emission control strategy where several emission points are regarded as being placed under an hypothetical dome which is then regarded as a single emission source. Sources under a bubble may reallocate emission decreases and increases so long as the requirements of 310 CMR 7.00 are met. Bubbles need not be confined to a single facility or source site.

<u>BULK PLANT</u> means any organic material storage and/or distribution facility with an average daily throughput (1/30 of the total throughput on a rolling 30-day time period) of greater than or equal to 4,000, but less than 20,000 gallons of organic material having a true vapor pressure greater than 1.5 psia under actual storage conditions.

<u>BULK TERMINAL</u> means any organic material storage and/or distribution facility with an average daily throughput (1/30 of the total throughput on a rolling 30-day time period) of greater than 20,000 gallons of organic material having a true vapor pressure greater than 1.5 psia under actual storage conditions.

<u>BUSINESS DAY</u> as used in 310 CMR 7.24(3) and (6), means a day of the week that the Department is open for business.

<u>BUSINESS MACHINE</u> means a device that uses electronic or mechanical methods to process information, perform calculations, print or copy information, or convert sound into electrical impulses for transmission, including devices listed in North American Industry Classification System (NAICS) numbers 333318, 334112, 334118, 334210, and photocopy machines, a subcategory of products classified under NAICS code 333316.

<u>BUSINESS MACHINE COATING</u> means the coating of any plastic part that is or shall be assembled with other parts to form a business machine.

<u>CALIFORNIA AIR RESOURCES BOARD (or CALIFORNIA ARB or CARB)</u> means the California state agency established and empowered to regulate sources of air pollution in California, including motor vehicles, pursuant to California Health and Safety Code, Sections 39500 *et seq*.

<u>CAMOUFLAGE COATING</u> means a coating used, principally by the military, to conceal equipment from detection.

<u>CAPTURE EFFICIENCY</u> means the ability of a building, enclosure or system to capture air contaminants within the building, enclosure or system before the air contaminants are directed to an air pollution control device. Capture efficiency is determined in accordance with EPA Reference Test Method Number 204, as specified in 40 CFR Part 51: *Appendix M*, or by other methods approved by the Department and EPA.

<u>CARBON DIOXIDE EQUIVALENT (CO₂e)</u> means the amount of GHGs emitted computed by multiplying the mass amount of emissions in tons per year for each of the greenhouse gases in the air contaminant GHGs, by each gas' associated global warming potential set forth in 40 CFR Part 98, Subpart A: *Table A-1 – Global Warming Potentials* as in effect on January 1, 2015, and summing the resultant value for each gas to compute tons per year CO₂e.

CEMS means a continuous emissions monitoring system

<u>CFR</u> means the Code of Federal Regulations.

<u>CHAIRMAN OF THE BOSTON MPO</u> means the chairman of the Boston Metropolitan Planning Organization; which position is held by the Massachusetts Secretary of Transportation and Construction.

<u>CHART</u> means the Ringelmann Scale for grading the density of smoke, as published by the United States Bureau of Mines and as referred to in the Bureau of Mines Information Circular No. 8333, or any smoke inspection guide approved by the Department.

<u>CLASS I HARDBOARD PANELING FINISH</u> means a finish that meets the specifications for Class I of Voluntary Product Standard PS-59-73 as approved by the American National Standards Institute (ANSI).

<u>CLASS II HARDBOARD PANELING FINISH</u> means a finish that meets the Class II specifications of ANSI A135.5-2012 as approved by the American National Standards Institute (ANSI).

<u>CLEANUP SOLUTION</u> means a solution which is used to clean any equipment and its parts.

<u>CLEAR COAT</u> means a coating which lacks color and opacity or is transparent and uses the undercoat as a reflectant base or undertone color.

<u>COATING</u> means a material applied onto, or impregnated into, a substrate for protective, decorative, or functional purposes. Such materials include, but are not limited to, paints, varnishes, sealants, adhesives and temporary protective coatings.

<u>COATING</u> for purposes of 310 CMR 7.18(14) means materials applied onto or impregnated into a substrate for decorative, protective, or functional purposes. Such materials include, but are not limited to, solvent-borne coatings, waterborne coatings, adhesives, wax coatings, wax laminations, extrusion coatings, extrusion laminations, 100% solid adhesives, UV cured coatings, electron beam cured coatings, hot melt coatings, and cold seal coatings. Materials used to form unsupported substrates, such as calendaring of vinyl, blown film, cast film, extruded film, and co-extruded film, are not defined as coatings.

<u>COATING LINE(S)</u> means one or more apparatuses or operations which apply, convey and dry a surface coating comprised of including but not limited to the coating applicator (knife coating, roll coating, spray booths, flow coaters, dipping), conveyors, flashoff areas, air dryers, drying ovens and curing ovens. A coating line is considered to convey, apply and dry one or more layers of surface coating including, but not limited to, base coat, single coat, prime coat, and top coat.

<u>COATING LINE</u> for purposes of 310 CMR 7.18(14), means a series of coating applicators, flash-off areas, and any associated curing/drying equipment between one or more unwind/feed stations and one or more rewind/cutting stations.

<u>COATING MIXING TANK</u> means any portable or stationary tank used to disperse, blend, strain, thin, or tint an ink or formulation used for surface coating.

<u>COMBINED CYCLE COMBUSTION TURBINE</u> means any combustion turbine, including the duct burner portion thereof, in which heat is recovered from the exhaust gases to heat water or generate steam.

<u>COMBUSTION DEVICE</u> means all equipment including, but not limited to, thermal incinerators, catalytic incinerators, flares, boilers, and process heaters used for combustion of organic vapors.

<u>COMBUSTION EFFICIENCY (C.E.)</u> means a measure of the completeness of combustion, expressed as a percent, determined by the measurement of carbon dioxide (CO₂) and carbon monoxide (CO) in flue gas in accordance with the following formula: $C.E. = [CO_2/(CO + CO_2)] \times 100$.

<u>COMMENCE OPERATIONS</u>, as used in 310 CMR 7.24(3) and (6), means that point, after a Stage I or Stage II system has been installed or has undergone a substantial modification, when motor vehicle fuel is first dispensed for sale or use from a motor vehicle fuel dispensing facility or tank truck for the purpose said facility or tank truck is intended.

<u>COMMERCIAL PARKING SPACES</u> means, for the purposes of 310 CMR 7.30, parking spaces provided for a fee, excluding employee parking spaces.

COMMISSIONER means the Commissioner of the Department of Environmental Protection.

<u>COMMUTER</u> means any employee or student during his or her journey to or from work or classes and whose automobile is not customarily required to be used in the course of employment or classes.

<u>COMPLIANCE CERTIFICATION</u> means a statement detailing the compliance status of the emission unit or facility in regards to each applicable requirement, signed by a responsible official of the facility as being complete, accurate and true to the best knowledge of the signatory.

<u>COMPONENT</u> for the purpose of 310 CMR 7.18(19), means a piece of equipment including, but not limited to, pumps, valves, compressors, and pressure relief valves, which has the potential to leak volatile organic compounds.

<u>CONDENSATE</u> for the purposes of 310 CMR 7.24, means hydrocarbon liquid separated from natural gas which condenses due to changes in the temperature and/or pressure and remains liquid at standard conditions.

<u>CONDENSIBLE SUBSTANCES</u> means any inorganic or organic compound or element, which exist in vapor phase prior to being emitted to the ambient atmosphere and undergoes rapid condensation under ambient conditions.

<u>CONDENSOR</u> means a device which cools a gas stream to a temperature which removes specific organic compounds by condensation.

<u>CONSTRUCT OR CONSTRUCTION</u> means any physical change or change in the method of operation (including fabrication, erection, installation, demolition, or modification of an emissions unit) which would result in an increase in potential emissions.

<u>CONTAMINATED GROUNDWATER TREATMENT SYSTEM (CGTS)</u> means a system designed to remediate groundwater contaminated with VOC through stripping of VOC from the water and transferring the VOC to an air stream.

<u>CONTAMINATED SOIL VENTING SYSTEM</u> means a system designed to remediate soil contaminated with a volatile organic compound (VOC) through stripping of the VOC from the soil by use of an on-site venting system constructed into the contaminated soil area. <u>CONTAMINATED SOIL VENTING SYSTEM</u> does not include the venting of landfills.

<u>CONTINUOUS COMPLIANCE</u> means meeting emission limitations established by 310 CMR 7.00 at all times.

<u>CONTINUOUS PROCESS POLYSTYRENE RESIN MANUFACTURING PLANT</u> means a plant in which styrene, with various dissolved additives, is continuously fed into a thermal reactor system and a molten resin product is continuously discharged from the reactor system.

<u>COOLING TOWER</u> as used in 310 CMR 7.02(2)(g)6., means an open water recirculation device that uses fans or natural draft to draw or force ambient air through the device to cool warm water by direct contact.

<u>CRITERIA AIR CONTAMINANT</u> or <u>CRITERIA POLLUTANT</u> means ozone (O_3), particulate matter (PM), sulfur oxides measured as sulfur dioxide (SO₂), nitrogen dioxide (NO₂), volatile organic compounds (VOC) as non-methane hydrocarbons, carbon monoxide (CO) or lead (Pb), or any other air contaminant for which national ambient air quality standards have been adopted.

<u>CRUDE OIL</u> means a naturally occurring mixture which consists of hydrocarbons, and sulfur, nitrogen and/or oxygen derivatives of hydrocarbons which is a liquid at standard conditions.

<u>CURB WEIGHT</u> describes a vehicle's weight classification as determined by the Registrar of Motor Vehicles.

<u>CUTBACK ASPHALT</u> means asphalt cement which has been liquefied by blending with petroleum solvent (diluents) such that the blend contains greater than seven per cent by weight of such petroleum solvents. Upon exposure to atmospheric conditions the diluents evaporate, leaving the asphalt cement to perform its function.

<u>CYLINDER</u> means any one of several components of a printing press used to transfer printed images or guide paper through the press including, but not limited to, intermediate, blanket, impression, plate and sheet transfer cylinders.

<u>DEMOLITION OR RENOVATION</u> means, unless otherwise specified, any operation which involves the wrecking, taking out, removal, stripping, or altering in any way (including repairing, restoring, drilling, cutting, sanding, sawing, scratching, scraping, or digging into) or construction of one or more facility components or facility component insulation. <u>DEMOLITION</u> or <u>RENOVATION</u> includes load- and nonload - supporting structural members of a facility.

<u>DEPARTMENT</u> means the Department of Environmental Protection (pursuant to St. 1989 c. 240, §§ 101, "...the department of environmental quality engineering shall be known as the department of environmental protection").

<u>DIGITAL PRINTING</u> means a method of printing in which an electronic output device transfers variable data, in the form of an image, from a computer to a variety of substrates.

<u>DIP COATING</u> means a method of applying coatings to a substrate by submersion into and removal from a coating bath.

<u>DISTRICT</u> means the Berkshire (BAPCD), Central Massachusetts (CMAPCD), Merrimack Valley (MVAPCD), Metropolitan Boston (MBAPCD), Pioneer Valley (PVAPCD), and Southeastern Massachusetts (SMAPCD) Air Pollution Control Districts.

<u>DRUM</u> means any cylindrical metal shipping container larger than 12 gallons capacity but no larger than 110 gallons capacity.

<u>DRY BOTTOM</u> means a furnace design in which the coal-fired unit equipped with an ash disposal hopper bottom with sufficient cooling surface so that the ash particles impinging on the furnace walls or hopper bottom can be removed in a dry state.

<u>DUAL-POINT STAGE I SYSTEM</u> as used in 310 CMR 7.24(3), means a type of Stage I system in which the storage tank is equipped with an entry port for a motor vehicle fuel fill pipe and a separate exit port for a vapor connection.

<u>DUCT BURNER</u> means a device that combusts fuel and that is placed in the exhaust duct from another source, such as a stationary gas turbine, internal combustion engine, kiln etc., to allow the firing of additional fuel to heat the exhaust gases before the exhaust gases enter a heat recovery steam generating unit.

DUST means finely divided solid matter.

DYEING FORMULATION means a fluid used to apply color to a textile substrate.

<u>ELASTOMERIC COATING</u> means a coating that is designed for application over flexible parts, such as elastomeric bumpers.

<u>ELECTRIC DISSIPATING COATING</u> means a coating that rapidly dissipates a high voltage electric charge.

<u>ELECTRIC-INSULATING AND THERMAL-CONDUCTING COATING</u> means a coating that displays an electrical insulation of at least 1000 volts DC per mil on a flat test plate and an average thermal conductivity of at least 0.27 BTU per hour-foot-°F.

<u>ELECTRIC-INSULATING VARNISH</u> means a non-convertible-type coating applied to electric motors, components of electric motors, or power transformers, to provide electrical, mechanical, and environmental protection or resistance.

<u>ELECTRICAL AND ELECTRONIC COMPONENTS</u> for purposes of 310 CMR 7.18(31) means components and assemblies of components that generate, convert, transmit, or modify electrical energy. Electrical and electronic components include, but are not limited to, wires, windings, stators, rotors, magnets, contacts, relays, printed circuit boards, printed wire assemblies, wiring boards, integrated circuits, resistors, capacitors, and transistors. Cabinets in which electrical and electronic components are housed are not considered electrical and electronic components.

<u>ELECTRODEPOSITION</u> means a specialized form of dip coating where opposite electric charges are applied to the coating and the part.

ELECTROMAGNETIC INTERFERENCE/RADIO FREQUENCY INTERFERENCE (EMI/RFI) COATING means a coating used in plastic business machine housings to attenuate electromagnetic and radio frequency interference signals that would otherwise pass through the plastic housings.

<u>ELECTROSTATIC PREPARATION COATING</u> means a coating that is applied to a plastic part solely to provide conductivity for the subsequent application of a primer, a topcoat, or other coating through the use of electrostatic application methods. An electrostatic preparation coating is clearly identified as an electrostatic preparation coating on its accompanying safety data sheet.

<u>ELECTROSTATIC SPRAY APPLICATION</u> means the application of charged atomized paint particles thereby enhancing deposition by electrostatic attraction of the paint to the substrate.

<u>EMERGENCY DEMOLITION/RENOVATION OPERATION</u> means any operation that was not planned but results from a sudden unexpected event which requires the demolition/renovation of a structurally sound or unsound facility or facility component. This term includes operations necessitated by non-routine failures of equipment.

<u>EMERGENCY MOTOR VEHICLE</u> as used in 310 CMR 7.24(6), means any publicly or privately-owned motor vehicle used for the restoration or maintenance of electricity, gas, telephone, or other utilities essential to maintain public services during an emergency situation; any publicly-owned motor vehicle operated by a peace officer in performance of their duties; any authorized emergency motor vehicle used for fighting fires or responding to emergency fire calls; any publicly-owned authorized emergency motor vehicle used by an emergency medical technician or paramedic; any publicly or privately-owned motor vehicle used for towing or servicing other emergency motor vehicles; or any ambulance used by a private entity under contract with a public agency.

<u>EMERGENCY SITUATION</u> as used in 310 CMR 7.24(6), means a situation in which a local, state, or federal official has declared a "state of emergency," or during fire fighting activities.

<u>EMERGENCY OR STAND-BY ENGINE</u> for the purposes of 310 CMR 7.02(8)(i) and 7.03(10), means any stationary internal combustion engine which operates as an emergency or standby mechanical or electrical power source.

<u>EMI/RFI SHIELDING COATING</u> means a coating used on electrical or electronic equipment to provide shielding against electromagnetic interference (EMI), radio frequency interference (RFI), or static discharge.

EMISSION means any discharge or release of an air contaminant to the ambient air space.

<u>EMISSION POINT</u> means any place (including, but not limited to, a stack or vent) at or from which any air contaminant is emitted to the ambient air space.

<u>EMISSION STATEMENT</u> is a certification submitted by the owner or operator of a facility that describes the actual annual emissions of VOC and/or NOx from the facility as well as the average Ozone Season daily emissions from the facility.

<u>EMISSION UNIT</u> means any individual piece of equipment from which any air contaminant is emitted to the ambient air space; for example, an individual boiler, a single degreaser, etc.

<u>EMISSIONS CAPTURE AND CONTROL EQUIPMENT</u> means a system designed to limit the release of air contaminants into the ambient air by collecting emissions from a facility or emission unit, before they are emitted to the ambient air, and controlling these emissions by reducing or eliminating the mass of the air contaminants contained in the emissions. Control methods include, but are not limited to, oxidation, filtration, scrubbing, condensation, absorption and adsorption.

<u>EMPLOYEE</u> means any person who performs work for an employer 17 or more hours per week and for more than 20 weeks per year for compensation and who travels to and from work by any mode of travel.

<u>EMPLOYEE PARKING SPACES</u> means for the purposes of 310 CMR 7.30, parking spaces provided for use by employees of MASSPORT and employees of tenants at Logan Airport.

<u>EMPLOYER</u> means any person or entity who employs 250 or more daytime employee commuters at any time during a calendar year at any employment facility, or any educational institution with 1000 or more commuters.

<u>EMPLOYMENT FACILITY</u> means any facility or group of facilities of the same employer which are within walking distance of each other at which 250 or more persons are commuters.

<u>END SEALING COMPOUND</u> means a synthetic rubber compound which is coated on to ends of cans and which functions as a gasket when the can is assembled.

<u>ENERGY INPUT CAPACITY</u> means the ability of a fuel utilization facility, based on the Higher Heating Value (HHV) of the fuel, to combust a stated maximum amount of fuel on a steady state basis, as determined by the physical design and characteristics of the fuel utilization facility and does not include the energy input from preheated combustion air, recirculated flue gases, or exhaust gases from other sources.

ENVIRONMENTAL JUSTICE POPULATION.

- (a) A Neighborhood that meets one or more of the following criteria:
 - 1. the annual median household income is not more than 65% of the statewide annual median household income;
 - 2. minorities comprise 40% or more of the population;
 - 3. 25% or more of households lack English language proficiency;
 - 4. minorities comprise 25% or more of the population and the annual median household

income of the municipality in which the neighborhood is located does not exceed 150% of the statewide annual median household income; or

(b) a geographic portion of a Neighborhood designated by the Secretary as an Environmental Justice Population pursuant to M.G.L. c. 30, § 62; provided, however, that a Neighborhood or a geographic portion of a Neighborhood that the Secretary has determined shall not be designated an Environmental Justice Population pursuant to M.G.L. c. 30, § 62 shall not be considered an Environmental Justice Population.

EPA means the United States Environmental Protection Agency.

ETCHING FILLER means a coating that contains less than 23% solids by weight and at least 1/2% acid by weight, and is used instead of applying a pretreatment coating followed by a primer.

EXECUTIVE ORDER, as used in 310 CMR 7.24(3) and (6), means a certification document, including but not limited to, applicable exhibits, installation, operation and maintenance manuals, manufacturer guidance documents and manufacturer advisory correspondence or mail outs, as issued or approved by CARB, in accordance with the applicable certification procedures (17 of the California Code of Regulations, section 94011, as amended April 12, 1996) and adopted by the Department in 310 CMR 7.24(3) and (6).

EXISTING FACILITY for the purposes of 310 CMR 7.02(8), means any facility that is in operation on or before June 1, 1972, or any proposed facility of which the construction, substantial reconstruction or alteration of which has been approved in writing by the Department on or before June 1, 1972. All facilities as specified in the Federal Register, Volume 36, No. 247, December 23, 1971, the construction or modification of which was initiated after August 17, 1971 shall not be defined as existing facilities.

EXTERIOR BASE COAT means any coating applied to the exterior of a can to provide exterior protection to the metal and/or provide background for the lithographic or printing operation.

<u>EXTERNAL FLOATING ROOF</u> means a storage vessel cover in an open top tank consisting of a double deck or pontoon single deck which rests upon and is supported by the petroleum liquid being contained and is equipped with a closure seal or seals to close the space between the roof edge and tank shell.

EXTREME ENVIRONMENTAL CONDITIONS means continuous exposure to temperatures consistently above 95°C, detergents, abrasives, scouring agents, solvents, corrosive atmospheres, or similar environmental conditions.

<u>EXTREME HIGH-GLOSS COATING</u> for purposes of 310 CMR 7.18(11)(d)2.a. and b., means a coating which, when tested by ASTM standard D523-14, shows a reflectance of 75% or more on a 60° meter.

<u>EXTREME HIGH-GLOSS COATING</u> for purposes of 310 CMR 7.18(11)(b)4. and (d)2.c., means a coating which, when tested by ASTM standard D523-14, shows a reflectance of 90% or more on a 60° meter.

<u>EXTREME PERFORMANCE COATING</u> means coatings designed for exposure to harsh or extreme environmental conditions, as determined by the Department including, but not limited to, constant weather exposure, detergents, temperatures consistently above 203°F (95°C), or corrosive atmospheres.

EXTREME PERFORMANCE COATING for purposes of 310 CMR 7.18(11)(d)2.a. and b. means a coating used on a metal or plastic surface where the coated surface is, in its intended use, exposed to extreme environmental conditions such as those listed in (a) through (c). EXTREME PERFORMANCE COATING includes, but is not limited to, coatings applied to locomotives, railroad cars, farm machinery, and heavy duty trucks. Extreme environmental conditions include, but are not limited to, any of the following:

(a) Chronic exposure to corrosive, caustic, or acidic agents, chemicals, chemical fumes, chemical mixtures, or solutions;

(b) Repeated exposure to temperatures in excess of $121^{\circ}C$ (250°F); or

(c) Repeated heavy abrasion, including mechanical wear and repeated scrubbing with industrial grade solvents, cleansers, or scouring agents.

<u>FABRIC SURFACE COATING</u> means the coating of a textile substrate to impart properties that are not initially present, such as strength, stability, water or acid repellency, or appearance.

<u>FACE FIRING</u> means a furnace firing design in which the burners are mounted in an array on one or more vertical walls including

- (a) opposed firing, where the burners are mounted on two opposite walls; and
- (b) single-wall firing, where the burners are mounted on only one wall.

<u>FACILITY</u> means any installation or establishment and associated equipment, located on the same, adjacent or contiguous property, capable of emissions.

<u>FACILITY COMPONENT</u> means any part of a facility including, but not limited to, any equipment, pipe, duct, boiler, tank, turbine, furnace, building material, insulation, load supporting and nonload supporting structural member or non-structural member at the facility.

FEDERAL POTENTIAL TO EMIT or FEDERAL POTENTIAL EMISSIONS means the maximum capacity of a stationary source to emit a regulated pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the source to emit a regulated pollutant, including air pollution control equipment and restriction on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design only if the limitation or the effect it would have on emissions is federally enforceable. To be federally enforceable, a limitation on any facility's capacity to emit a pollutant shall include testing, monitoring, and recordkeeping procedures sufficient to demonstrate compliance with the limitations. Examples of permit or SIP limitations generally considered federally enforceable are limitations on the allowable capacity of the equipment, requirements for the installation, operation and maintenance of pollution control equipment, limits on hours of operation, and restrictions on amounts of materials combusted, stored, or produced. To be federally enforceable, restrictions on operation, production, or emissions must be stated in terms of the shortest averaging time that can be used as a practical matter, *e.g.*, pounds per hour, or gallons per hour, and they must be tied to other enforceable operating restrictions at the source. General limitations on potential to emit, such as yearly limits (e.g., in tons per year), by themselves, are not considered federally enforceable. The use of hourly, daily, weekly, or monthly rolling limits are generally acceptable. Any federally enforceable limitations or conditions must be enforceable as a practical matter, ensure continuous compliance with the restrictions, and include adequate testing, monitoring, and record keeping procedures sufficient to demonstrate compliance with the limitations or conditions of an applicable federally enforceable document described above. Fugitive emissions, to the extent quantifiable, are included in determining the potential to emit of a stationary source. Secondary emissions do not count in determining the potential to emit of a stationary source.

FEDERALLY ENFORCEABLE means all limitations and conditions which are enforceable by the Administrator, including but not limited to, those requirements developed pursuant to 40 CFR Part 60 (New Source Performance Standards), 40 CFR Part 61 (National Emission Standards for Hazardous Air Pollutants), 40 CFR Part 63 (National Emission Standards for Hazardous Air Pollutants for Source Catergories), 40 CFR Parts 72 through 80 (Acid Rain Program) and requirements within the Massachusetts State Implementation Plan. Federally enforceable requirements also include those requirements in operating permits issued either pursuant to 40 CFR Part 71 or under 310 CMR 7.00: *Appendix C*, (except those listed as state enforceable only) any permit requirements established pursuant to 40 CFR 52.21 (Prevention of significant deterioration of air quality), under plan approval requirements in either 310 CMR 7.02 or 7.00: *Appendix A*. Federally enforceable limitations and conditions can also be contained in either a permit restriction issued under 310 CMR 7.02(9), (10), (11) or equipment installed under 310 CMR 7.03, that has been made federally enforceable after the EPA has approved 310 CMR 7.02 and 7.03 into the Massachusetts SIP.

<u>FERROUS CUPOLA FOUNDRY</u> means a vertical cylindrical furnace using pig iron, scrap iron, scrap steel and coke as charging components. Ferrous Cupola Foundries can be separated into "Jobbing" Foundries and "Production" foundries. Jobbing foundries run intermittently for just long enough at one time to pour the molds that are ready on the foundry floor on a job-by-job basis. Production foundries will melt metal continuously and pour to a succession of molds that are constantly being prepared to receive the flow of molten iron.

<u>FINAL FINISH APPLICATION LINE</u> means one or more apparatuses or operations which apply, convey, and dry/cure a final finish on to a textile substrate.

<u>FINAL FINISHING</u> means the functional enhancement of a textile by application of shape-retentive, water-repellent, stain-resistant, antistatic, flame-retardant, or other chemical treatments.

<u>FINISH PRIMER/SURFACER</u> means a coating applied with a wet film thickness of less than ten mils prior to the application of a topcoat for purposes of providing corrosion resistance, adhesion of subsequent coatings, a moisture barrier, or promotion of a uniform surface necessary for filling in surface imperfections.

<u>FINISHING FORMULATION</u> means a material applied to a textile substrate to enhance the textile's performance or appearance.

FLASHOFF AREA means part of a coating line between the application area and the oven.

<u>FLAT WOOD PANELING</u> means hardwood plywood, thin particleboard and hardboard, but does not include Class I hardboard panels, exterior siding, tile board, insulation board or particleboard used in furniture manufacturing.

<u>FLAT WOOD PANELING SURFACE COATING</u> means a coating applied to flat wood panels including: printed interior panels made of hardwood plywood and thin particleboard; natural finish hardboard plywood panels; and hardwood paneling with Class II finishes.

<u>FLEXIBLE COATING</u> means any coating that is required to comply with engineering specifications for impact resistance, mandrel bend, or elongation as defined by the original equipment manufacturer.

<u>FLEXOGRAPHIC PRINTING</u> means the application of words, designs, and pictures to a substrate by means of a roll printing technique in which the pattern to be applied is raised above the printing roll and the image carrier is made of rubber or other elastomeric materials.

<u>FLOW COATING</u> means a coating labeled and formulated exclusively for use by electric power companies or their subcontractors to maintain the protective coating systems present on utility transformer units.

<u>FLYASH</u> means the aerosolized solid component of burned or partially burned fuel. "Soot" and "cinders" are included within the meaning of the term "flyash".

<u>FOG COATING</u> means a coating that is applied to a plastic part for the purpose of color matching without masking a molded-in texture.

<u>FOUNTAIN ADDITIVE</u> means any of several volatile and/or non volatile compounds or mixtures of compounds used to enhance the functioning of dampening systems in offset lithographic presses.

<u>FOUNTAIN SOLUTION</u> means a mixture of water and fountain additives, including isopropyl alcohol, for use in the dampening system of offset lithographic presses. Also referred to as dampening solution.

<u>FOUR-STAGE COATING SYSTEM</u> means a topcoat system composed of a colored basecoat, two semi-transparent midcoats, and a final transparent clearcoat. For compliance purposes, the VOC content of four-stage coating systems shall meet the emission limitation for three or four-stage topcoats in Table 7.18(28)(c), and is calculated according to the following formula:

$$VOC T_{4-stage} = \frac{VOC_{bc} + VOC_{mc1} + VOC_{mc2} + 2 VOC_{cc}}{5}$$

Where:

VOC $T_{4-stage}$ is the weighted average of the VOC content, as applied, in the basecoat, midcoat, and clearcoat system.

 VOC_{bc} is the VOC content, as applied, of any given basecoat.

 VOC_{mc1} is the VOC content, as applied, of the first midcoat.

 VOC_{mc2} is the VOC content, as applied, of the second midcoat.

2VOC_{cc} is twice the VOC content, as applied, of any given clearcoat.

<u>FREEBOARD HEIGHT</u> means for a Cold Cleaner Degreaser, the distance from the top of the liquid level to the lip of the tank; for an Open Top Vapor Degreaser, the distance from the top of the vapor zone during idling to the lip of the degreaser tank; for a Conveyorized Cold Cleaner, the distance from the top of the solvent level to the bottom of the entrance or exit opening, whichever is lower, for a Conveyorized Vapor Degreaser, the distance from the top of the solvent vapor level while idling to the bottom of the entrance or exit opening, whichever is lower.

<u>FREEBOARD RATIO</u> means ratio of the freeboard height to the smaller interior dimension (length, width, or diameter) of the degreaser.

<u>FUEL</u> means any solid, liquid, or gaseous material such as, but not limited to, coal, gasoline, manufactured gas, natural gas, oil, or wood, used for the production of heat or power by burning.

-<u>COAL</u> means all solid fuels classified as anthracite, bituminous, subbituminious, or lignite by the American Society of Testing and Materials in ASTM D388-77, standard specification for classification of coals by Rank, coal-derived synthetic fuels including, but not limited to, solvent refined coal, gasified coal, coal-oil mixtures, and coal-water mixtures.

-<u>DISTILLATE FUEL OIL</u> means No. 1 or No. 2 fuel oil. Distillate fuel oil having a sulfur content of 0.17 pounds of million Btu heat release potential is approximately equal to distillate fuel oil having a sulfur content of 0.3% by weight.

-<u>FOSSIL FUEL</u> means coal, coke, distillate oil, residual oil, used oil fuel or natural or manufactured gas.

-<u>HAZARDOUS WASTE FUEL</u> means a regulated recyclable material, other than waste oil, and other than a material that [i] has the hazardous waste characteristics set forth in 310 CMR 30.120 through 30.125, [ii] has waste oil as a significant ingredient, and [iii] does not have as an ingredient any hazardous waste, other than waste oil, listed or otherwise identified in 310 CMR 30.130 through 30.136,

1. that is recycled by being burned for energy recovery in an industrial or utility boiler or in an industrial furnace, but not in a hazardous waste incinerator licensed pursuant to 310 CMR 7.08 and 30.800:*Licensing Requirements and Procedures*, and

2. that is:

a. presumed to be hazardous waste fuel pursuant to 310 CMR 30.215: *Distinguishing Waste Oil That Is Used Oil Fuel from Waste Oil That Is Not Used Oil Fuel*,

b. a mixture of

(i) any hazardous waste, other than waste oil, or of any material presumed to be hazardous waste fuel pursuant to 310 CMR 30.215: *Distinguishing Waste Oil That Is Used Oil Fuel from Waste Oil That Is Not Used Oil Fuel*, with

(ii) any other material (including, without limitation, waste oil, any other hazardous waste, any material presumed to be hazardous waste fuel pursuant to 310 CMR 30.215: *Waste Oil That Is Used Oil Fuel from Waste Oil That Is Not Used Oil Fuel*, specification used oil fuel, off-specification used oil fuel, unused commercial fuel oil, unused commercial crude oil, or any hazardous or non-hazardous material burnable as fuel), and

3. that is managed in compliance with 310 CMR 30.200: *Provisions for Recyclable Material and for Waste Oil*.

-<u>NATURAL GAS</u> means

1. a naturally occurring mixture of hydrocarbon and nonhydrocarbon gas found in geologic formations beneath the earth's surface, of which the principal constituent is methane; or

2. liquefied petroleum gas, as defined by the American Society of Testing and Materials in ASTM D1835-97, "Standard Specification for Liquefied Petroleum Gases"

-<u>RESIDUAL FUEL OIL</u> means No. 4, No. 5, or No. 6 fuel oil. Residual fuel oil having a sulfur content of 0.55 or 0.28 pounds per million Btu heat release potential is approximately equal to residual fuel oil having a sulfur content of 1.0 or 0.5% by weight respectively.

-<u>USED OIL FUEL</u> means a regulated recyclable material

1. that is recycled by burning for energy recovery, and

- 2. that is:
 - a. a waste oil, or
 - b. any fuel, other than hazardous waste fuel, produced from waste oil by processing, blending, or other treatment, and

3. that is managed in compliance with 310 CMR 30.200 30.200: *Provisions for Recyclable Material and for Waste Oil*.

-<u>WOOD FUEL</u> means all wood intended to be used as a fuel including, but not limited to, trees, cord wood, logs, lumber, saw dust, and wood from: manufacturing processes (but offs, shavings, turnings, sander dust, etc.), wood pellets, slabs, bark, chips, waste pallets, boxes, *etc.* -<u>WOOD FUEL</u> does not include materials which are chemically treated with any preservative, paint, or oil.

<u>FUEL ADDITIVE</u> means any substance which is not a natural component of the fuel to which it may be added or in conjunction with which it may be used.

<u>FUEL CELL</u> means an electrochemical device that converts the chemical energy in a fuel into electricity and heat.

<u>FUEL UTILIZATION FACILITY</u> means any furnace(s), fuel burning equipment, boiler(s), space heaters or any appurtenance thereto used for the burning of fuels, for the emission of products of combustion, or in connection with any process which generates heat and emits products of combustion, but does not mean a motor vehicle or an incinerator.

<u>FUGITIVE EMISSIONS</u> means those emissions which could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening.

FUME means any aerosol resulting from chemical reaction, distillation, or sublimation.

<u>FURNACE</u> means any enclosed structure designed to produce heat from the burning of a fuel therein, but does not mean open hearths, incinerators, stoves for cooking, fireplaces, or equipment for the melting, reclaiming, or refining of metals or maple syrup.

<u>GAS</u> means the state of matter having neither independent shape nor independent volume but having a tendency to expand and diffuse infinitely.

<u>GASOLINE</u> for the purpose of 310 CMR 7.24, means any petroleum distillate having an RVP of more than four pounds per square inch as defined by ASTM Method D323. Mixtures of 10% or greater simple alcohols are excluded from this definition.

<u>GASOLINE MARKETING FACILITY</u> for the purpose of 310 CMR 7.24, means a stationary tank having a capacity of greater than 250 gallons in which gasoline is stored or from which it is dispensed be it through retail or wholesale transfer.

<u>GENERATOR</u> means any person, by site, whose act or process produces hazardous waste, or whose act first causes a hazardous waste to become subject to regulation pursuant to 310 CMR 30.000: *Hazardous Waste*

<u>GLASS</u> means a hard amorphous inorganic substance made by fusing silicates, and sometimes borates and phosphates, with certain basic oxides.

<u>GLASS MELTING FURNACE</u> means equipment using heat for the production of glass. A unit comprising a refractory vessel in which raw materials are charged, melted at high temperature, refined, and conditioned to produce molten glass.

<u>GLOSS REDUCER</u> means a coating that is applied to a plastic part solely to reduce the shine of the part. A gloss reducer shall not be applied at a thickness of more than 0.5 mils of coating solids.

<u>GREENHOUSE GASES (GHGs)</u> means the air contaminant that is the aggregate group of six greenhouse gases: Carbon dioxide (CO₂), Methane (CH₄), Nitrous oxide (N₂O), Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs), and Sulfur hexafluoride (SF₆). To represent an amount of GHGs emitted, the term Carbon Dioxide Equivalent (CO₂e) shall be used.

HALOGENATED ORGANIC COMPOUND is any compound of carbon (excluding metallic carbides or carbonates and ammonium carbonate) combined with a halogen. For purposes of 310 CMR 7.12 and 7.18, halogenated organic compounds (HOC) are the following specific chemicals: methylene chloride, perchloroethylene (tetrachloroethylene), CFC-11 (trichlorofluoromethane), CFC-12 (dichlorodifluoromethane), CFC-22 (chlorodifluoromethane), FC-23 (trifluoromethane), CFC-114 (dichlorotetrafluoro- ethane), and CFC-115 (chloropentafluoroethane).

<u>HAND-FIRED FURNACE</u> means any furnace in which fuel is manually placed directly on the hot fuel bed but does not mean stoves or fireplaces or other equipment used for the cooking of food.

<u>HARDBOARD</u> is a panel manufactured primarily from inter-felted ligno-cellulosic fibers that are consolidated under heat and pressure in a hot press.

<u>HARDENER</u> means an additive designed to promote a faster cure of coatings which cure by chemical cross-linking of the resin components.

HARDWOOD PLYWOOD is plywood whose surface layer is a veneer of hardwood.

<u>HAZARDOUS AIR POLLUTANT (HAP)</u> means an air contaminant designated by EPA under 42 U.S.C. 7412, as modified by EPA in 40 CFR Part 63, Subpart C (40 CFR 63.60 through 63.69). That list is incorporated by reference herein, together with all amendments and supplements thereto. A copy of the list is available from the Department.

<u>HAZARDOUS WASTE</u> means a waste, or combination of wastes, which because of its quantity, concentration, or physical, chemical or infectious characteristics may cause, or significantly contribute to an increase in serious irreversible, or incapacitating reversible illness or pose a substantial present or potential hazard to human health, safety, or welfare or to the environment when improperly treated, stored, transported, used or disposed of, or otherwise managed, however, not to include solid or dissolved materials in irrigation return flows or industrial discharges which are point sources subject to permits under Section 402 of the Federal Water Pollution Control Act of 1967 as amended, or source, special nuclear, or by-product material as defined by the Atomic Energy Act of 1954. Hazardous waste shall include any waste which is listed, identified, or otherwise determined to be hazardous waste pursuant to 310 CMR 30.100.

<u>HEAT RELEASE RATE</u> means the steam generating unit design heat input capacity (in Btu per hour) divided by the furnace volume (in cubic feet); the furnace volume is that volume bounded by the front furnace wall where the burner is located the furnace side waterwall, and extending to the level just below or in front of the first row of convection pass tubes.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEFINITIONS: continued

<u>HEAT-RESISTANT COATING</u> means a coating intended to withstand a temperature of at least 204° C (400° F), during normal use.

<u>HEATSET OFFSET LITHOGRAPHIC PRINTING</u> means offset lithographic process that requires heat to set or dry the ink.

<u>HEATSET PRINTING</u> means a process that requires heat to set or dry the ink.

<u>HIGH BAKE</u> coating means a coating which is designed to cure only at temperatures of more than $90^{\circ}C$ (194°F).

<u>HIGH BUILD PRIMER/SURFACER</u> means a coating applied with a wet film thickness of ten mils or more prior to the application of a topcoat for purposes of providing corrosion resistance, adhesion of subsequent coatings, or a moisture barrier, or promoting a uniform surface necessary for filling in surface imperfections.

<u>HIGH GLOSS COATING</u> means any coating which achieves at least 85% reflectance on a 60° meter when tested by ASTM D 523-14.

<u>HIGH OCCUPANCY VEHICLE (HOV)</u> means an automobile, van or bus with one or more passengers in addition to the driver, including taxi's with a single passenger.

<u>HIGH OCCUPANCY VEHICLE LANE</u> means a lane of travel designated for the sole use of high occupancy vehicles.

<u>HIGH PRECISION PRODUCTS</u> means products for which contamination must be minimized in accordance with a customer or other specification including but not limited to:

(a) Products for use in extreme environments;

(b) Products covered by rigorous military or commercial specifications that require extremely accurate and quality controlled manufacturing; and

(c) Products with quality standards that do not allow for potential excess contamination.

<u>HIGH VOLUME LOW PRESSURE (HVLP) SPRAY APPLICATION</u> means spray equipment used to apply a coating by means of a spray gun which operates between 0.1 and 10 Psig air pressure.

<u>HIGH-PERFORMANCE ARCHITECTURAL COATING</u> means a coating used to protect architectural subsections and which meets the requirements of the American Architectural Manufacturers Association's publication number AAMA 2604-17 (Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels) or 2605-17 (Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels).

<u>HIGH-PRECISION OPTICS</u> for purposes of 310 CMR 7.18(31), means the optical elements used in electro-optical devices that are designed to sense, detect, or transmit light energy, including specific wavelengths of light energy and changes of light energy levels.

<u>HIGH-TEMPERATURE COATING</u> means a coating that is certified to withstand a temperature of 1000° F for 24 hours.

<u>IMPACT-RESISTANT COATING</u> means a coating designed to resist chipping caused by road debris.

<u>IN GAS SERVICE</u> for the purpose of 310 CMR 7.18(19), means any component which contacts process fluid that is in the gaseous state under operating conditions.

<u>IN LIGHT LIQUID SERVICE</u> for the purpose of 310 CMR 7.18(19), means a component is in contact with a fluid containing greater than 10% by weight light liquid.

<u>IN VOC SERVICE</u> for the purpose of 310 CMR 7.18(19), means equipment handling 10% or greater VOC by weight is subject to 310 CMR 7.00.

<u>INCINERATOR</u> means any article, machine, equipment, contrivance, structure, or part of a structure, used primarily for the reduction of combustible waste(s) by burning.

- <u>COMMERCIAL or INDUSTRIAL INCINERATORS</u> means any incinerator operated by any commercial or industrial establishment primarily for the reduction of refuse generated by said establishment.

- <u>DOMESTIC INCINERATOR</u> means any incinerator used primarily for the reduction of domestic refuse generated on the premises.

- <u>FLUE-FED INCINERATOR</u> means any incinerator provided with a single flue which serves as both the charging chute and the duct for conduction of the products of combustion to the ambient air space.

- <u>HAZARDOUS WASTE INCINERATOR</u> means any incinerator used for the reduction of hazardous waste except infectious waste as regulated by the Department of Public Health pursuant to the provisions of 105 CMR 130.354.

- <u>MODULAR INCINERATOR</u> means any incinerator of a standard design and identifiable by the manufacturer's markings.

- <u>MUNICIPAL INCINERATOR</u> means any incinerator operated by any person primarily for the reduction of refuse generated by the public at large.

- <u>SPECIAL INCINERATOR</u> means any incinerator designed for a special purpose such as but not limited to burning of biological, pathological, or toxicological refuse or for a specific facility.

<u>INDUSTRIAL CLEANING SOLVENT</u> for purposes of 310 CMR 7.18(31), means liquid used to clean parts, products, tools, machinery, equipment, and general work areas, including cleanup solutions and degreasing agents. Industrial cleaning solvent does not include janitorial supplies used for cleaning offices, bathrooms or other similar areas. Industrial cleaning solvent does not include solvent used in cold cleaning degreasing, vapor degreasing, or conveyorized degreasing at a facility subject to 310 CMR 7.18(8).

<u>INTERNAL FLOATING ROOF</u> means a cover in a fixed roof tank which rests upon or is floated upon the petroleum liquid being contained, and is equipped with a closure seal or seals to close the space between the cover's edge and the tank shell.

<u>INTERIOR BASE COAT</u> means any coating applied by roller coater or spray to the metal sheets for three piece cans to provide a protective lining between the can metal and the product.

<u>INTERIOR BODY SPRAY</u> means any coating sprayed on the interior of the can body to provide a protective film between the product and the can.

<u>ISOLATE</u> means, for the purposes of 310 CMR 7.24(6), to take out of service one or more components of a Stage II system so that the remainder of the Stage II system operates as required by the terms and conditions of the system's currently applicable Executive Order.

<u>KNIFE COATING</u> means the application of any coating to a substrate by means of drawing the substrate beneath a thin blade that spreads the coating evenly over the full width of the substrate.

<u>LARGE APPLIANCE SURFACE COATING</u> means the coating of doors, cases, lids, panels, and interior support parts of residential and commercial washers, dryers, ranges, refrigerators, freezers, water-heaters, dishwasher, trash compactors, air conditioners, and other associated products.

<u>LEAK</u> for the purpose of 310 CMR 7.18(19) and 7.24(8), means the emission of a volatile organic compound concentration greater than or equal to 10,000 parts per million by volume (ppmv) as shown by monitoring or dripping of process fluid.

<u>LEAKING COMPONENT</u> for the purpose of 310 CMR 7.18(19) and 7.24(8), means any component which has a leak.

<u>LEAN BURN ENGINE</u> means a stationary reciprocating internal combustion engine in which the amount of O_2 in the engine exhaust gases is 1.0% or more.

<u>LEASE CUSTODY TRANSFER</u> means the transfer of produced crude oil and/or condensate, after processing and/or treating in the producing operations, from storage tanks or automatic transfer facilities to pipelines or any other form of transportation.

<u>LEATHER SURFACE COATING</u> means the coating of a leather substrate to impart properties that are not initially present, such as strength, stability, water or chemical repellency, or appearance.

<u>LETTERPRESS PRINTING</u> means a method where the image area is raised relative to the non-image area and the ink is transferred to the substrate directly from the image surface.

<u>LIGHT-DUTY TRUCK</u> means any motor vehicle rated at 8500 pounds gross vehicle weight or less which is designed primarily for the transportation of property.

<u>LIGHT LIQUID</u> for the purpose of 310 CMR 7.18(19), means a fluid with a vapor pressure greater than 0.3 kiloPascals (0.044 psi) at 20° C.

<u>LIGHTERING OR LIGHTERING OPERATION</u> means the offshore transfer of a bulk liquid cargo from one marine tank vessel to another vessel.

<u>LIQUID-MOUNTED SEAL</u> means a primary seal mounted in continuous contact with the liquid between the tank wall and the floating roof around the circumference of the tank.

<u>LITHOGRAPHIC PRINTING</u> means a printing process in which the image and non-image areas of the plate are on the same geometric plane. The image area is oil-receptive (hydrophobic) and the non-image area is water receptive (hydrophilic).

<u>LOADING EVENT</u> means an occurrence beginning with the connecting of marine terminal storage tanks to a marine tank vessel by means of pipes or hoses followed by the transferring of organic liquid cargo from the storage tank into the tank vessel and ending with the disconnecting of the pipes or hoses; or any other means of admitting any other organic liquid into marine vessel cargo tanks.

<u>LOWEST ACHIEVABLE EMISSION RATE (LAER)</u> means, for any source, the more stringent rate of emissions based on the following:

(a) The most stringent emissions limitation which is contained in any state SIP for such class or category of stationary source, unless the owner or operator of the proposed stationary source demonstrates that such limitations are not achievable; or

(b) The most stringent emissions limitation which is achieved in practice by such class or category of stationary source. This limitation, when applied to a modification, means the lowest achievable emissions rate for the new or modified emissions units within a stationary source.

In no event shall LAER allow a proposed new or modified stationary source to emit any pollutant in excess of the amount allowable pursuant to applicable New Source Performance Standards of 40 CFR Part 60.

<u>MAGNET WIRE INSULATION SURFACE COATING</u> means the application of electrically insulating varnish or enamel to aluminum or copper wire for use in electrical machinery.

<u>MAKEUP SOLVENT</u> means any solvent(s) which is(are) added to printing inks to reduce viscosity or otherwise modify properties.

<u>MALFUNCTION</u> means any sudden, infrequent, and not reasonably preventable failure of air pollution control and monitoring equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

<u>MARINE TANK VESSEL</u> means any marine vessel which is capable of carrying liquid bulk cargo in tanks.

<u>MARINE TERMINAL</u> means any facility or structure constructed to load or unload organic liquid bulk cargo into or out of marine tank vessels.

<u>MARINE VESSEL</u> means any tugboat, tanker, freighter, barge, passenger ship, or any other boat, ship, or watercraft except those used primarily for recreation.

<u>MASK COATING</u> means thin film coating applied through a template to coat a small portion of a substrate.

<u>MATERIAL RECOVERY SECTION</u> means a vacuum devolatilizer system, styrene recovery system, or other system of equipment which separates styrene monomer and/or reaction by-products from polystyrene, or separates styrene monomer from reaction by-products.

MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY means the standard established by the Administrator pursuant to the Clean Air Act, §§ 112 and 129 (42 U.S.C. 7412 and 42 U.S.C. 7429), that represents the maximum degree of reduction in emissions of hazardous air pollutants determined, after examination of economics, health, and environmental impacts, to be achievable for new or existing sources in the category or sub-category to which the emission standard applies. MACT Standards may be determined by the Department pursuant to 40 CFR 63 Subpart B.

<u>MAXIMUM DESIGN CAPACITY</u> means the rated design capacity, operating rate or production rate of an emission unit as determined by the manufacturer of that unit or other method approved by the Department.

<u>MEDICAL DEVICE</u> for purposes of 310 CMR 7.18(31), means an instrument, apparatus, implement, machine, contrivance, implant, in vitro reagent or other similar article, including any component or accessory that is:

(a) intended for use in the diagnosis of disease or other conditions, or in the cure, mitigation, treatment, or prevention of diseases;

(b) intended to affect the structure or any function of the body; or

(c) defined in the National Formulary or the United States Pharmacopoeia or any supplement to it.

METAL CAN SURFACE COATING means the coating of two or three piece metal cans.

<u>METAL COIL SURFACE COATING</u> means the coating of any flat metal sheet or strip that comes in rolls or coils.

<u>METAL FURNITURE SURFACE COATING</u> means the coating of any metal parts which will be assembled with other metal, wood, fabric, plastic, or glass parts to form a furniture piece.

<u>METALLIC COATING</u> means a coating that contains more than five grams total of pure elemental metal or a combination of elemental metals per liter of coating as applied.

<u>MILITARY SPECIFICATION COATING</u> means a coating that has a formulation approved by a United States military agency for use on military equipment.

<u>MINOR MODIFICATION</u> means, for the purposes of 310 CMR 7.24(6), the re-installation repair or replacement of one or more Stage II System components that is not substantial including, but not limited to: less than 50% of the motor vehicle fuel dispensers (*e.g.*, one of four dispensers); a central vacuum unit of a Healy 400 ORVR nozzle system or Healy 600 nozzle system; ball float extractor valve housings; dispenser mounted vapor pumps; or "screw-on" spill or dry break buckets. If the re-installation, repair or replacement of Stage II System components occurs at a motor vehicle fuel dispensing facility with two or less dispensers, the re-installation, repair or replacement of only one of the motor vehicle fuel dispensers shall be a Minor Modification.

MISCELLANEOUS METAL PARTS AND PRODUCTS means farm machinery (harvesting, fertilizing, and plant machines, tractors, combines, lawn mowers, rototillers, *etc.*); small appliances; commercial and office equipment (computers and auxiliary equipment, typewriters, calculators, vending machines, *etc.*); fabricated metal products (metal doors, frames, *etc.*); industrial machinery (pumps, compressors, conveyor components, fans, blowers, transformers, *etc.*); and any other metal parts or products which are coated under Standard Industrial Classification Codes of Major Groups 33, 34, 35, 36, 37, 38, and 39. The use of autobody anti-chip coatings and underbody plastisols in automobile and light-duty truck surface coating is considered coating of miscellaneous parts and products. This definition does not include metal cans, flat metal sheets, and strips in the form of rolls or coils; magnet wire for use in electrical machinery; metal furniture; large appliances; automobile and light duty trucks, automobile refinishing; exterior coating of assembled entire aircraft or assembled entire metal marine vessels; or customized topcoating of automobiles and trucks, if production is less than 35 vehicles per day.

<u>MIST</u> means any liquid aerosol formed by the condensation of vapor or by the atomization of liquids.

<u>MOBILE EQUIPMENT</u> means, for the purposes of 310 CMR 7.18(28), any equipment that is physically capable of being driven or drawn upon a highway including, but not limited to, construction vehicles (such as mobile cranes, bulldozers and concrete mixers); farming equipment (such as tractors and plows); hauling equipment (such as truck trailers, utility bodies and camper shells) and miscellaneous equipment (such as street sweepers and golf carts).

<u>MOLD-SEAL COATING</u> means the initial coating applied to a new mold or a repaired mold to provide a smooth surface which, when coated with a mold release coating, prevents products from sticking to the mold.

<u>MONITOR</u> for the purpose of 310 CMR 7.18(19), means to measure volatile organic compound concentration by the appropriate EPA reference method.

<u>MONTHLY THROUGHPUT</u> means the total volume of motor vehicle fuel that is loaded into, or dispensed from, all motor vehicle fuel storage tanks at a motor vehicle fuel dispensing facility during a month. Monthly throughput is calculated by summing the volume of motor vehicle fuel loaded into, or dispensed from, all motor vehicle fuel storage tanks at a motor vehicle fuel dispensing facility during the current day, plus the total volume of motor vehicle fuel loaded into, or dispensed from, all motor vehicle fuel storage tanks at a motor vehicle fuel loaded into, or dispensed from, all motor vehicle fuel storage tanks at a motor vehicle fuel loaded into, or dispensed from, all motor vehicle fuel storage tanks at a motor vehicle fuel loaded into, or dispensed from, all motor vehicle fuel storage tanks at a motor vehicle fuel loaded into, or dispensed from, all motor vehicle fuel storage tanks at a motor vehicle fuel loaded into, or dispensed from, all motor vehicle fuel storage tanks at a motor vehicle fuel loaded into, or dispensed from, all motor vehicle fuel storage tanks at a motor vehicle fuel loaded into, or dispensed from, all motor vehicle fuel storage tanks at a motor vehicle fuel loaded into, or dispensed from, all motor vehicle fuel storage tanks at a motor vehicle fuel loaded into, or dispensed from, all motor vehicle fuel storage tanks at a motor vehicle fuel loaded into, or dispensed from all motor vehicle fuel storage tanks at a motor vehicle fuel loaded into, or dispensed from all motor vehicle fuel storage tanks at a motor vehicle fuel storage tanks at a motor vehicle fuel storage tanks at a motor vehicle fuel dispensing facility during the previous 364 days, and then dividing that sum by 12.

<u>MOTOR VEHICLE</u> means any equipment or mechanical device propelled primarily on land by power other than muscular power but does not mean railroad and railway engines and cars, vehicles operated by the system known as trolley motor or trackless trolley, or devices used for domestic purposes.

<u>MOTOR VEHICLE BEDLINER</u> means a multi-component coating, used at a facility that is not an automobile or light-duty truck assembly coating facility, applied to a cargo bed after the application of topcoat to provide additional durability and chip resistance.

<u>MOTOR VEHICLE CAVITY WAX</u> means a coating, used at a facility that is not an automobile or light-duty truck assembly coating facility, applied into the cavities of the vehicle primarily for the purpose of enhancing corrosion protection.

<u>MOTOR VEHICLE DEADENER</u> means a coating, used at a facility that is not an automobile or light-duty truck assembly coating facility, applied to selected vehicle surfaces primarily for the purpose of reducing the sound of road noise in the passenger compartment.

<u>MOTOR VEHICLE FUEL</u> means any petroleum distillate having a Reid Vapor Pressure of more than four pounds per square inch as determined by ASTM Method D323 and which is used primarily to power motor vehicles. This definition includes, but is not limited to, gasoline and mixtures of simple alcohols and gasoline.

<u>MOTOR VEHICLE FUEL DISPENSING FACILITY</u> means any facility where motor vehicle fuel is dispensed into motor vehicle fuel storage tanks, motor vehicle fuel-powered equipment, or portable containers from a storage tank with a capacity of 250 gallons or more.

<u>MOTOR VEHICLE GASKET/SEALING MATERIAL</u> means a fluid, used at a facility that is not an automobile or light-duty truck assembly coating facility, applied to coat a gasket or replace and perform the same function as a gasket. Automobile and light-duty truck gasket/gasket sealing material includes room temperature vulcanization (RTV) seal material.

<u>MOTOR VEHICLE LUBRICATING WAX/COMPOUND</u> means a protective lubricating material, used at a facility that is not an automobile or light-duty truck assembly coating facility, applied to vehicle hubs and hinges.

<u>MOTOR VEHICLE PARKING SPACE</u> means any space which is used for the purpose of parking motor vehicles (whether or not demarcated as such), and whether or not a fee has been charged for its use; except those parking spaces used by residents, on street parking spaces, parking spaces designated by the City of Boston as parking for residents only shall not be considered as motor vehicle parking spaces. Nor shall parking spaces used for the purpose of the temporary storage of motor vehicles for sale, or parking spaces owned or operated by the Massachusetts Bay Transit Authority and used solely by transit users be considered motor vehicle parking spaces.

<u>MOTOR VEHICLE SEALER</u> means a high viscosity material, used at a facility that is not an automobile or light-duty truck assembly coating facility, generally, but not always, applied in the paint shop after the body has received an electrodeposition primer coating and before the application of subsequent coatings (*e.g.*, primer-surfacer). The primary purpose of automobile and light-duty truck sealer is to fill body joints completely so that there is no intrusion of water, gases or corrosive materials into the passenger area of the body compartment. Such materials are also referred to as sealant, sealant primer, or caulk.

<u>MOTOR VEHICLE TRUNK INTERIOR COATING</u> means a coating, as used at a facility that is not an automobile or light-duty truck assembly coating facility, applied to the trunk interior to provide chip protection.

<u>MOTOR VEHICLE UNDERBODY COATING</u> means a coating, used at a facility that is not an automobile or light-duty truck assembly coating facility, applied to the undercarriage or firewall to prevent corrosion and/or provide chip protection.

<u>MULTI-COLORED COATING</u> means a coating which exhibits more than one color when applied, and is packaged in a single container and applied in a single coat.

<u>MULTI-COMPONENT COATING</u> means a coating requiring the addition, before application, of a separate reactive resin, commonly known as a catalyst or hardener, in order to form an acceptable dry film.

<u>MW</u> means megawatt or a unit of electrical power equal to one million watts.

NATIONAL AMBIENT AIR QUALITY STANDARDS (NAAQS) OR FEDERAL AMBIENT <u>AIR QUALITY STANDARDS</u> means the ambient air quality standards for criteria pollutants adopted by the Administrator pursuant to the Clean Air Act § 109 (42 U.S.C. § 7410) and codified at 40 CFR Part 50 as in effect on November 17, 2016.

NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAPS) means those standards adopted by the EPA and contained in the CFR Title 40, Part 61 as of June 20, 2014.

<u>NATURAL DRAFT OPENING</u> means any permanent opening in an enclosure that remains open during operation of the emission unit and is not connected to a duct in which a fan is installed.

<u>NATURAL FINISH HARDWOOD PLYWOOD PANELS</u> means panels whose original grain pattern is enhanced by essentially transparent finishes which are frequently supplemented by fillers and toners.

<u>NEIGHBORHOOD</u>. A census block group as defined by the United States Census Bureau, excluding people who live in college dormitories and people who are under formally authorized, supervised care or custody, including federal, state or county prisons.

<u>NEW SOURCE PERFORMANCE STANDARDS</u> (NSPS) means Standards of Performance for New Stationary Sources adopted by the U.S. Environmental Protection Agency and contained in 40 CFR 60, and subsequent revisions as specified in the Regulations. Any emission testing to be compared with NSPS must be conducted in accordance with applicable procedures as specified in 40 CFR 60, or by another method which has been demonstrated to the satisfaction of the Department as being equivalent.

<u>NEWSPAPER PRINTING</u> is a non-heatset web offset lithographic process.

<u>NO-BUILD ALTERNATIVE</u> means the project roadway, the appurtenant highway network and roadway operational characteristics that would exist if the project were not built and assuming the level of development and services (*e.g.*, transit) which physically exist at the time of analysis or for which construction has commenced and completion and full utilization is expected prior to the projected completion date of the project under review.

 $\underline{\text{NOISE}}$ means sound of sufficient intensity and/or duration as to cause or contribute to a condition of air pollution.

<u>NONATTAINMENT AREA</u> means an area designated by the EPA as not meeting the National Ambient Air Quality Standard for a criteria pollutant pursuant to the Clean Air Act, § 107 (42 U.S.C. 7407) and 40 CFR Part 81. The current Massachusetts attainment status is published at 40 CFR 81.322, Subpart C - Section 107: *Attainment Status Designations*.

<u>NONATTAINMENT REVIEW</u> is plan review for major sources and major modifications as defined and described in 310 CMR 7.00: *Appendix A*.

<u>NON-CRITERIA POLLUTANT</u> is any air contaminant that is not listed as a criteria pollutant.

<u>NON-HEATSET OFFSET LITHOGRAPHIC PRINTING</u> means an offset lithographic process that does not require heat to set or dry the ink. UV-cured and electron beam-cured inks are considered non-heatset.

<u>NORTHEAST STATES</u> means Maine, New Hampshire, Vermont, Massachusetts, New York, Connecticut, Rhode Island, and New Jersey.

<u>ODOR</u> means that property of gaseous, liquid, or solid materials that elicits a physiologic response by the human sense of smell.

<u>OFF-PEAK PARKING SPACES</u> means motor vehicle parking spaces not available for parkers between the hours of 7:30 A.M. and 9:30 A.M. on weekdays.

<u>OFFSET LITHOGRAPHIC PRINTING</u> means a printing process that transfers the printing image to an intermediary surface, which, in turn, transfers the image to the printing substrate.

<u>OFF-STREET PARKING SPACES</u> means parking spaces on private or public property adjacent to and/or with access to but not on a public or private roadway.

<u>ONE-COMPONENT COATING</u> means a coating that is ready for application as it comes out of its container to form an acceptable dry film. A thinner, necessary to reduce the viscosity, is not considered a component.

<u>OPACITY</u> means that characteristic of matter which renders it capable of interfering with the transmission of rays of light and causes a degree of obscuration of an observer's view.

<u>OPAQUE STAIN</u> means all stains that contain pigments, but are not classified as semitransparent stains, and includes stains, glazes and other opaque material applied to wood surfaces.

<u>OPEN BURNING</u> means burning under such conditions that the products of combustion are emitted directly to the ambient air space and are not conducted thereto through a stack, chimney, duct, or pipe. Open burning includes above or underground smoldering fires.

OPTICAL COATING means a coating applied to an optical lens.

<u>ORGANIC LIQUID</u> for the purpose of 310 CMR 7.24(8), means any liquid organic material having a vapor pressure of equal to or greater than 1.5 pounds per square inch absolute under actual storage conditions.

<u>ORGANIC MATERIAL</u> means any chemical compound of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbonates, metallic carbides and ammonium carbonates.

<u>OVERVARNISH</u> means a coating applied directly over ink to reduce the coefficient of friction, to provide gloss and/or to protect the finish against abrasion and corrosion.

<u>OWNER/OPERATOR</u> means any person, any department or instrumentality of the federal government, or any public or private group which:

- (a) has legal title, alone or with others, of a facility; or
- (b) has the care, charge, or control of a facility.

<u>OXIDES OF NITROGEN(NO_x)</u> means all oxides of nitrogen including, but not limited to, nitrogen oxide and nitrogen dioxide.

<u>OXYGENATE</u> means any substance which, when added to gasoline, increases the amount of oxygen in that gasoline blend. Lawful use of any such substance or combination of substances must occur in compliance with Section 211 (f)(1) and 211 (m) of the Clean Air Act, or be permitted under a waiver granted by the US Environmental Protection Agency Administrator under the authority of section 211 (f)(4) of the Clean Air Act.

<u>OXYGENATED GASOLINE</u> means gasoline with an oxygen content of at least 2.7% but no more than 2.9% of oxygen by weight.

OXYGENATED GASOLINE CONTROL AREA means any community located with in the Metropolitan Boston Air Pollution Control District, the Merrimac Valley Air Pollution Control District, and the following specific communities: Bellingham, Berlin, Carver, Foxborough, Franklin, Halifax, Harvard, Hopedale, Kingston, Lakeville, Lancaster, Mansfield, Medway, Mendon, Middleborough, Milford, Norton, Plymouth, Plympton, Raynham, Shirley, Townsend, Upton, and Wrentham.

OXYGENATED GASOLINE CONTROL PERIOD means the period beginning November 1st of a calendar year and continuing through the last day of February of the subsequent calendar year.

<u>OZONE SEASON</u> means the period beginning May 1^{st} of a calendar year and ending on September 30^{th} of the same year.

<u>PACKAGING ROTOGRAVURE PRINTING</u> or <u>PACKAGING FLEXOGRAPHIC PRINTING</u> means rotogravure or flexographic printing upon paper, paper board, metal foil, plastic films, and other substrates which are, in subsequent operations, formed into packaging products and labels for articles to be sold.

<u>PAINT SPRAY BOOTH</u> means a structure housing automatic or manual spray application equipment where coating is applied.

<u>PAN-BACKING COATING</u> means a coating applied to the surface of pots, pans, or other cooking implements that are exposed directly to a flame or other heating elements.

<u>PAPER, FILM AND FOIL SURFACE COATING</u> means the application of a continuous layer of coating across the width or any portion of the width of a paper, film or foil substrate to:

- (a) create a functional or protective layer;
- (b) saturate a substrate for lamination; or
- (c) provide adhesion between two substrates for lamination,

for a variety of decorative and functional products including, but not limited to, adhesive tapes, adhesive labels, metal foil, decorated, coated and glazed paper, book covers, office copier paper (zinc oxide coated), carbon paper, typewriter ribbons, and photographic films. Coating performed on or in-line with any offset lithographic, screen, letterpress, flexographic, retrogravure, or digital printing press is part of a printing process and is not part of the paper, film, and foil surface category.

<u>PARK AND FLY PARKING SPACES</u> means privately owned and operated off-street parking spaces located in the East Boston Parking Freeze Area provided for use by Logan Airport air travellers and visitors.

<u>PARKING FREEZE</u> means a limitation on the number of parking spaces available for specific uses within a specific geographic area.

<u>PARKING SPACE</u> means that area of public or private property that is designated or used for the parking or storage of one motor vehicle, excluding areas used for the loading and the unloading of goods.

<u>PARTICULATE</u> means any material that exists in a finely divided form as a liquid or solid at ambient air temperatures, humidity and pressures.

<u>PARTICULATE MATTER (PM)</u> means any airborne finely divided solid or liquid material, other than uncombined water.

<u>PARTICULATE MATTER EMISSIONS</u> means all finely divided solid or liquid material, other than uncombined water, emitted into the ambient air, as measured by applicable reference methods, or equivalent or alternative specified methods, specified by EPA in the CFR, or by test methods specified by DEP and approved by EPA.

<u>PEAK HOUR</u> means a one hour period where the highest volume of traffic is utilizing any given roadway segment.

<u>PENETRATING PRIME COAT</u> means an application of low viscosity liquid asphalt to an absorbent surface used to prepare an untreated base for an asphalt surface.

<u>PERSON</u> means any individual, public or private partnership, association, firm, syndicate, company, trust, corporation, department or instrumentality of the federal or state government, political subdivision of the commonwealth, authority, bureau, agency, law enforcement agency, fire fighting agency, or any other entity recognized by law as the subject of rights and duties.

<u>PETROLEUM HEATSET INK</u> means an ink that is not a water-based, UV-cured, or electron beam-cured ink.

<u>PETROLEUM LIQUIDS</u> means crude oil, condensate and any finished or intermediate products manufactured or extracted in a petroleum refinery (through the petroleum refining process).

<u>PIGMENTED COAT</u> means opaque coatings that contain binders and colored pigments and are formulated to conceal the wood surface either as an undercoat or topcoat.

<u>PLAN APPROVAL</u> means the written approval by the Department of a comprehensive plan application or a limited plan application issued under 310 CMR 7.02(1).

<u>PLASTIC PARTS</u> are parts made from a substance that has been formed from a resin through the application of heat, pressure or both. They include, but are not limited to, plastic components for the following areas: automotive interior parts; automotive exterior parts, both flexible and rigid; business and office machine parts; medical equipment housings; entertainment equipment housings; toys; musical equipment housings; sporting goods; outdoor signs; architectural structures such as doors, floors and window frames; transportation equipment; and other miscellaneous plastic parts.

<u>PLASTIC PARTS SURFACE COATING</u> means the coating of a plastic part to impart properties that are not initially present, such as strength, stability, water or chemical repellency, resistance to EMI/RFI or appearance.

<u>PLEASURE CRAFT</u> means a vessel which is manufactured or operated primarily for recreational purposes, or leased, rented, or chartered to a person or business for recreational purposes. The owner or operator of such vessels shall be responsible for certifying that the intended use is for recreational purposes.

<u>PLEASURE CRAFT SURFACE COATING</u> means any marine coating, except unsaturated polyester resin (fiberglass) coatings, applied by brush, spray, roller, or other means to a pleasure craft.

<u>PM10 OR PARTICULATE MATTER 10</u> means particulate matter with an aerodynamic diameter less than or equal to a nominal ten micrometers as measured by a federal reference method based on Appendix J of 40 CFR Part 50 and designated in accordance with 40 CFR Part 53 or by a federal equivalent method designated in accordance with 40 CFR Part 53.

<u>PM10 EMISSIONS</u> means finely divided solid or liquid material with an aerodynamic diameter less than or equal to a nominal ten micrometers, or condensible substance, other than uncombined water, emitted to the ambient air, as measured by an applicable reference method, or equivalent or alternative method specified by DEP and approved by EPA.

<u>PM_{2.5} OR PARTICULATE MATTER 2.5</u> means particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers as measured by a federal reference method based on Appendix L of 40 CFR Part 50 and designated in accordance with 40 CFR Part 53 or by a federal equivalent method designated in accordance with 40 CFR Part 53.

 $\underline{PM}_{2.5} \underline{EMISSIONS}$ means finely divided solid or liquid material with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers, or condensable substance, other than uncombined water, emitted to the ambient air, as measured by applicable reference methods, or equivalent or alternative methods, specified by EPA in the CFR or by test methods specified by DEP and approved by EPA.

<u>POLLUTION PREVENTION</u> means, for the purpose of 310 CMR 7.02(8)(a)2.b., using one or more materials (*e.g.*, coatings, inks, solvents, *etc.*) formulations, processes, work practices, design features, equipment specifications or any combination thereof, which reduce air emissions to the extent feasible.

<u>POTENTIAL EMISSIONS OR POTENTIAL TO EMIT</u> means the maximum capacity of a facility or a stationary source to emit any air contaminant or pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or stationary source to emit any air contaminant or pollutant, including air pollution control equipment and/or restrictions on hours of operation, or on the type or amount of material combusted, stored or processed, shall be treated as part of the design only if the limitation is specifically stated in the facility's or stationary source's plan approvals, emission control plans, operating permit, certifications, restricted emission status, notifications and applicable regulations, or in the case of *de minimis* sources, in records of actual emissions established and maintained at the facility or stationary source pursuant to 310 CMR 7.02(2)(b). Fugitive emissions, to the extent quantifiable, are included in determining the potential emissions or the potential to emit of a facility or stationary source; secondary emissions are not included.

<u>PREFABRICATED ARCHITECTURAL COMPONENT COATINGS</u> means coatings applied to metal parts and products that are to be used as an architectural structure.

<u>PRESSURE RELIEF VALVE</u> for the purpose of 310 CMR 7.18(19), means a safety relief device used in applications where the process pressure may exceed the maximum allowable working pressure of the vessel.

<u>PRESSURE SENSITIVE TAPE</u> means a flexible backing material with a pressure-sensitive adhesive coating on one or both sides of the backing. Examples include, but are not limited to, duct/duct insulation tape and medical tape.

<u>PRETREATMENT COATING</u> means a coating which contains no more than 12% solids, by weight, and at least ½% acid, by weight; is used to provide surface etching; and is applied directly to metal surfaces to provide corrosion resistance, adhesion, and ease of stripping.

<u>PRETREATMENT WASH PRIMER</u> means the first coat applied to bare metal if solvent-based primers will be applied. This coating contains a minimum of 0.5% acid by weight, is necessary to provide surface etching, and is applied directly to bare metal surfaces to provide corrosion resistance.

<u>PRETREATMENT WASH PRIMER</u> for purposes of 310 CMR 7.18(11) and (21), means a coating which contains no more than 12% solids, by weight, and at least $\frac{1}{2}$ % acids, by weight; is used to provide surface etching; and is applied directly to fiberglass and metal surfaces to provide corrosion resistance and adhesion of subsequent coatings.

<u>PRIME COAT</u> or <u>PRIMER</u> means a coating formulated to provide a firm bond between substrate and subsequent coats.

<u>PRIMER SEALER</u> means a coating that improves the adhesion of the topcoat, provides corrosion resistance, promotes color uniformity, and resists penetration by the topcoat.

<u>PRIMER SURFACER</u> means a coating that fills in surface imperfections and builds a film thickness in order to allow sanding.

<u>PRINCIPAL ORGANIC HAZARDOUS CONSTITUENT (POHC)</u> means a specific hazardous waste constituent(s) which is listed in 310 CMR 30.160: *Hazardous Constituents* or otherwise specified by the Department, which is in a hazardous waste incinerator waste feed, and for which the Department determines that a performance standard shall apply. In determining whether a hazardous waste constituent shall be a POHC, the Department shall consider the degree of difficulty to incinerate (*e.g.*, heat of combustion, auto ignition temperature, *etc.*), concentration or mass in the waste feed, toxicity, and other factors as determined by the Department.

<u>PRINTING PRESS</u> means a printing production assembly, with the ability to print one or multiple colors, designed to produce a printed product.

<u>PRINTING INK</u> means any fluid or viscous mixture used in printing, impressing, or transferring an image onto a substrate.

<u>PRINT PASTE</u> means a viscous mixture containing a pigment or dye which is applied to a textile substrate as a decorative pattern or design.

<u>PRINTED INTERIOR PANEL</u> means a panel whose grain or natural surface is obscured by fillers and base coats upon which a simulated grain or decorative pattern is printed.

<u>PROCESS WEIGHT PER HOUR</u> means the total weight of all materials introduced into any specific process that may cause any emissions of particulate matter. Solid fuels charged are considered as part of the process weight, but liquid and gaseous fuels and combustion air are not. For a cyclical or batch operation, the process weight per hour is derived by dividing the total process weight by the number of hours in one complete operation from the beginning of any given process to the completion thereof, excluding any time during which the equipment is idle. For a continuous operation, the process weight per hour is derived by dividing the process weight for a typical period of time.

<u>PRODUCTS OF INCOMPLETE COMBUSTION (PICs)</u> means organic compounds in a hazardous waste incinerator flue gas other than principal organic hazardous constituents (POHCs).

<u>PROJECT AREA</u> means the geographical area defined by Executive Office of Environmental Affairs as the study area in its decision setting forth the scope of a project pursuant to 301 CMR 11.06: *ENF Review and Decision*.

<u>PROJECT ROADWAY</u> means the roadway which is enclosed (or proposed to be enclosed) within a tunnel or similar structure which is identified by the Executive Office of Environmental Affairs as falling within the project area in its determination issued pursuant to 301 CMR 11.06: *ENF Review and Decision*.

<u>PUBLIC FACILITY</u> means a facility wholly owned or operated by the Commonwealth; or by a city, town or governmental entity which is protected from the imposition of additional costs being assessed against such city, town or entity by M.G.L. c. 29, § 27C as amended (Proposition $2^{1}/_{2}$).

<u>PUBLICATION ROTOGRAVURE PRINTING</u> or <u>PUBLICATION FLEXOGRAPHIC</u> <u>PRINTING</u> means rotogravure or flexographic printing upon paper which is subsequently formed into books, magazines, catalogues, brochures, directories, newspaper supplements, and other types of printed materials.

<u>QUARTERLY</u> for the purpose of 310 CMR 7.18(19), means four times per year at 90-day intervals.

<u>QUENCH AREA</u> means a chamber where the hot metal exiting an oven is cooled by either a spray of water or a blast of air followed by water cooling.

<u>RADIATION</u> means any ionizing or non-ionizing, electromagnetic or particulate radiation or any sonic, infrasonic, or ultrasonic wave.

<u>RADIATION EFFECT COATING</u> for purposes of 310 CMR 7.18(31), means a material that prevents radar detection.

<u>RADIOACTIVE MATERIAL</u> means any material or materials in combination (solid, liquid, or gaseous) which emit(s) ionizing radiation.

<u>REASONABLY AVAILABLE CONTROL TECHNOLOGY</u> means the lowest emission limitation that a particular facility is capable of meeting by the application of control technology that is reasonably available considering technological and economic feasibility.

<u>RECOVERY DEVICE</u> means an individual unit of equipment including, but not limited to, an absorber, carbon adsorber, or condenser, capable of and used for the purpose of removing vapors and recovering liquids or chemicals.

RECYCLABLE MATERIAL

- (a) Recyclable material means any material that is used or reused or reclaimed.
- (b) Used or reused material means any material that is either:
 - 1. employed as an ingredient (including use as an intermediate) in an industrial process to make a product, except when distinct components of the material are recovered as separate end products; or
 - 2. employed in a particular function or application as an effective substitute for a commercial product.
- (c) Reclaimed material means any material that is processed to recover a useable product
- or that is regenerated.

RED COATING means a coating which meets all of the following criteria:

- (a) Yellow limit: the hue of hostaperm scarlet.
- (b) Blue limit: the hue of monastral red-violet.
- (c) Lightness limit for metallics: 35% aluminum flake.
- (d) Lightness limit for solids: 50% titanium dioxide white.
- (e) Solid reds: hue angle of -11 to 38 degrees and maximum lightness of 23 to 45 units.
- (f) Metallic reds: hue angle of -16 to 35 degrees and maximum lightness of 28 to 45 units.

These criteria are based on Cielab color space, 0/45 geometry. For spherical geometry, specular included, the upper limit is 49 units. The maximum lightness varies as the hue moves from violet to orange. This is a natural consequence of the strength of the colorants, and real colors show this effect.

<u>REDUCER</u> means a solvent added to dilute a coating, usually for the purpose of lowering its viscosity.

<u>REFRIGERATED CHILLER</u> means a device which is mounted above the water jacket and the primary condenser coils, consisting of secondary coils which carry a refrigerant to provide a chilled air blanket above the solvent vapor to reduce emissions from the degreaser bath. The chilled air blanket temperature measured at the centroid of the degreaser at the coldest point shall be no greater than 30% of the solvents boiling point measured in °F.

<u>REFUSE</u> means any animal, vegetable, or mineral, solid, liquid, or gaseous waste. It includes, but is not limited to, rubbish, garbage, ashes, construction waste, industrial waste, commercial waste, demolition waste, agricultural waste, abandoned vehicles, and any unwanted or discarded material. It does not include hazardous waste.

<u>REGENERATIVE CYCLE COMBUSTION TURBINE</u> means any stationary combustion turbine which recovers heat from the combustion turbine exhaust gases to preheat the inlet combustion air to the combustion turbine.

<u>REGISTRAR</u> means the Registrar of the Registry of Motor Vehicles.

<u>REGISTRY</u> means the Registry of Motor Vehicles.

<u>REGULATED POLLUTANT</u> means any air contaminant regulated under the Federal Clean Air Act, 42 U.S.C. 7401 *et seq.*, excluding pollutants regulated under 42 U.S.C. 7401, § 112.

<u>REGULATED RECYCLABLE MATERIAL</u> means any recyclable material which either

- (a) has a characteristic described in 310 CMR 30.120 through 30.125, or
- (b) is listed or otherwise described in 310 CMR 30.131 through 30.136, or
- (c) has been determined by the Department to be a hazardous waste pursuant to 310 CMR 30.144.

<u>REID VAPOR PRESSURE</u> is a standardized measure of the vapor pressure of a liquid in pounds per square inch absolute at 100°F as determined by ASTM Method D323.

<u>REMOTE PARKING SPACES</u> means any parking space (whether or not defined as a "motor vehicle parking space" for the purpose of 310 CMR 7.00) which serves end uses outside of a parking freeze area including, but not limited to, parking for airport use, for Downtown Boston parking, and for remote employee parking.

<u>RENTAL MOTOR VEHICLE</u> parking spaces means off-street parking spaces for rental/leased passenger motor vehicles at a facility owned, operated and/or leased by a motor vehicle rental company.

<u>REPAIR</u> for the purpose of 310 CMR 7.18(19), means to reduce the volatile organic compound concentration of a leaking component to below 10,000 ppmv as shown by monitoring.

<u>REPAIR COATING</u> means a coating used to recoat portions of a previously coated product which had sustained mechanical damage to the coating.

<u>REPOWERING</u> means the replacement of an emission unit with a new unit that is less polluting and more efficient than the unit which is being replaced.

<u>RESIST COAT</u> means a coating that is applied to a plastic part before metallic plating to prevent deposits of metal on portions of the plastic part.

<u>RESPONSIBLE OFFICIAL</u> means, in the case of:

- (a) a sole proprietorship the sole proprietor.
- (b) a partnership a general partner with the authority to bind the partnership.

(c) a corporation or a nonprofit corporation - a president, secretary, treasurer, or a vicepresident of the corporation in charge of a principal business function who has been duly authorized to bind the corporation pursuant to a corporate vote, or an employee of the corporation who has been duly authorized to bind the corporation pursuant to a corporate vote.

(d) a municipality or other public agency - a principal executive officer or ranking elected official who is empowered to enter into contracts on behalf of the municipality or public agency.

(e) a trust - a trustee or any other natural person authorized:

1. to enter into contracts regarding the trust property;

- 2. to bind the trust; or
- 3. to encumber or dispose of the trust property.

(f) a limited liability company - a person authorized pursuant to M.G.L. c. 156C, § 24 and the limited liability company's operating agreement to bind the company and all the members.

<u>RESTRICTED USE PARKING</u> for the purpose of 310 CMR 7.30, means parking spaces which are provided by Massport for use by Logan Airport air travellers and visitors for free when commercial parking space demand exceeds the supply of on-Logan airport commercial parking spaces, and which are not otherwise available for use by Logan Airport air travellers and visitors; <u>RESTRICTED USE PARKING</u> for the purpose of 310 CMR 7.33, means parking spaces which are provided for free when motor vehicle parking space demand exceeds the supply of motor vehicle parking spaces in the South Boston Parking Freeze area.

<u>RICH BURN ENGINE</u> means any stationary reciprocating internal combustion engine that is not a lean burn engine.

<u>ROLL COATING</u> means the application of a coating to a substrate by means of hard rubber or steel rolls.

<u>ROLL PRINTING</u> means the application of decorative print, words, designs, or pictures to a substrate by means of hard rubber or steel rolls each with only partial coverage of the substrate.

<u>ROLLER PRINTING</u> means rotogravure printing on a textile substrate.

<u>ROTARY SCREEN PRINTING</u> means the application of a decorative print, words, designs, or pictures to a textile substrate by means of a cylindrical, metal screen.

<u>ROTOGRAVURE PRINTING</u> means the application of words, designs and pictures to a substrate by means of a roll printing technique which involves an intaglio or recessed image areas in the form of cells.

<u>ROUTINE MAINTENANCE</u> means, for the purposes of 310 CMR 7.24(6), the regular reinstallation, repair or replacement of one or more Stage II System components including, but not limited to: hoses; nozzles; breakaways; swivels; hose retractors; bucket plow rings; "slip-on" spill or dry break buckets; "O" rings and seals; submersible pumps or suction pipes; fill adaptors; fill tubes; vapor adaptors; fill and vapor caps; drain valves; monitor caps; or riser caps.

<u>SAFETY-INDICATING COATING</u> means a coating that changes physical characteristics, such as color, to indicate unsafe conditions.

<u>SEALER</u> means a coating formulated and applied to prevent subsequent coatings from being absorbed into the substrate, or to prevent harm to subsequent coatings by materials in the substrate.

<u>SECONDARY EMISSIONS</u> means emissions which would occur as a result of the construction or operation of a major stationary source/facility or major modification but do not come from the major stationary source/facility or major modification itself. Secondary emissions must be specific, well defined, quantifiable, and impact the same general areas as the facility which causes the secondary emissions. Secondary emissions may include, but are not limited to:

- emissions from motor vehicles, ships or trains going to or from the major stationary source/facility, and

- emissions from any offsite support facility which would not otherwise be constructed, or increase its emissions as a result of the construction or operation of the major stationary source/facility or major modification.

<u>SECRETARY</u> means the Secretary of Transportation and Construction.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

7.00: continued

<u>SEMI-TRANSPARENT STAIN</u> means a coating which is formulated to change the color of the substrate but not conceal the substrate.

<u>SHEET-FED</u> means a printing operation in which the substrate is fed to the printing press in individual sheets.

<u>SHOCK-FREE COATING</u> means a coating applied to electrical components to protect the user from electric shock. The coating has characteristics of being of low capacitance and high resistance, and having resistance to breaking down under high voltage.

<u>SILICONE-RELEASE COATING</u> means any coating which contains silicone resin and is intended to prevent food from sticking to metal surfaces such as baking pans.

<u>SIMPLE CYCLE COMBUSTION TURBINE</u> means any stationary combustion turbine which does not recover heat from the combustion turbine exhaust gases to heat water or generate steam.

<u>SINGLE COAT</u> means a single film of coating applied directly to the substrate omitting any primer application.

<u>SINGLE-OCCUPANT COMMUTER VEHICLE</u> means a motor-powered vehicle with four or more wheels with capacity for a driver plus one or more passengers which is used by a commuter traveling alone to and/or from work or classes and is not customarily required to be used in the course of his or her employment, or studies.

<u>SINGLE-STAGE TOPCOAT</u> means a topcoat consisting of only one coating.

<u>SMALLER EMPLOYERS</u> means any person or entity who employs between 50 and 250 employee commuters who are located within an industrial or office park and are within walking distance of each other.

<u>SMOKE</u> means the visible aerosol, which may contain fly ash, resulting from combustion of materials but does not mean condensed water vapor.

 \underline{SOAP} means cleansing agents made of the alkali metal salts of fatty acids having from ten to 18 carbon atoms.

<u>SOLAR-ABSORBENT COATING</u> means a coating which has as its prime purpose the absorption of solar radiation.

<u>SOLID-FILM LUBRICANT</u> means a very thin coating consisting of a binder system containing as its chief pigment material one or more of molybdenum disulfide, graphite, polytetrafluoroethylene (PTFE), or other solids that act as a dry lubricant between faying surfaces.

<u>SOLIDS</u> as used in 310 CMR 7.18, means the volume (in gallons) of solid material in a coating, ink, or other organic material as determined by EPA Test Method 24:40 CFR 60: *Appendix A* (volume of coating minus volume of carrier such as photochemically reactive and or non-photochemically reactive solvents and water) or as provided by the coating manufacturer.

<u>SOLVENT</u> means a substance that is used to dissolve or dilute another substance; this term includes, but is not limited to, dissolvers, viscosity reducers, degreasing agents or cleaning agents.

<u>SOLVENT METAL DEGREASING</u> means the process of cleaning metal surfaces by using a volatile organic compound:

- <u>Cold Cleaning Degreasing</u> means the batch process of solvent metal cleaning by spraying, brushing, flushing or immersion while maintaining the solvent below its boiling point. Wipe cleaning is not included in this definition.

- <u>Conveyorized Degreasing</u> means the continuous process of solvent metal cleaning by operating with either cold or vaporized solvents.

- <u>Vapor Degreasing</u> means the process of solvent metal cleaning by condensing hot solvent vapor on the colder metal parts.

<u>SOUND</u> means the phenomenon of alternative increases and decreases in the pressure of the atmosphere, caused by radiations having a frequency range of from 20 to 20,000 cycles per second, that elicits a physiologic response by the human sense of hearing.

<u>SPACE HEATER</u> means a heating device that is used for the direct heating of the area in and adjacent to the area in which the device is located.

- <u>Used Oil Fuel Fired Space Heater</u> means a space heater that is capable of burning used oil fuel.

<u>SPECIAL AND EXTREME SOLVENT METAL CLEANING</u> means the use of degreasers:
 (a) To clean metal parts used in the manufacturing and rework of electronic parts, assemblies, boxes, wiring harnesses, sensors and connectors used in aerospace service;
 (b) To clean metal parts used in the manufacturing of ozone, nitrous oxide, fluorine, chlorine, bromine, halogenated compounds, or oxygen in concentrations greater than 23%; or

(c) To clean metal parts exposed to ozone, nitrous oxide, fluorine, chlorine, bromine, halogenated compounds, or oxygen in concentrations greater than 23%.

<u>SPECIALTY COATING</u> means a product which is necessary due to unusual job performance requirements. These coatings or additives include, but are not limited to, adhesion promoters, uniform finish blenders, elastomeric materials, impact resistant coatings, underbody coatings, weld through primers, gloss flatteners, bright metal trim repair, and anti-glare/safety coatings.

<u>SPECIALTY PRINTING</u> means all gravure and flexographic operations which print a design or image, excluding packaging rotogravure printing, packaging flexographic printing, publication rotogravure printing, and publication flexographic printing. Specialty printing operations include, but are not limited to, printing on paper cups and plates, patterned gift wrap, wall paper, and floor coverings.

<u>SPLASH FILLING</u> means the filling of a tank truck or stationary tank through a pipe or hose whose discharge opening is above the surface level of the liquid in the tank being filled.

STAGE I CARB ENHANCED VAPOR RECOVERY (EVR) COMPONENT or EVR <u>COMPONENT</u> as used in 310 CMR 7.24(3), means a component identified in any of the Executive Orders listed in 310 CMR 7.24(3)(c)1.: *Table 1*. and 310 CMR 7.24(3)(c)1.: *Table 2*.

STAGE I CARB ENHANCED VAPOR RECOVERY (EVR) SYSTEM as used in 310 CMR 7.24(3), means a vapor balance system certified by CARB pursuant to a Phase I Executive Order to prevent discharge to the atmosphere of at least 98% by weight of vapors displaced during the transfer of motor vehicle fuel from a tank truck to a motor vehicle fuel storage tank.

STAGE I COMPONENT ENHANCED VAPOR RECOVERY (EVR) SYSTEM as used in 310 CMR 7.24(3), means:

(a) for an underground storage tank, a vapor balance system constructed from components identified in any one of the Phase I Executive Orders listed in 310 CMR 7.24(3)(c).1.: *Table 1.* including, but not be limited to, the following components: spill containment buckets, drain valves, dust caps, rotatable product adaptors, riser adaptors, drop tubes, rotatable vapor adaptors, tank gauge ports, and pressure/vacuum vent valves; and

(b) for aboveground storage tanks, a vapor balance system constructed from components identified in any of the Phase I Executive Orders and applicable Standing Loss Control Executive Orders listed in 310 CMR 7.24(3)(c).1.: *Table 2*.

<u>STAGE I MINOR MODIFICATION</u> as used in 310 CMR 7.24(3), means the installation, repair or replacement of one or more Stage I system components that is not substantial including, but not limited to, product drop tubes; overfill prevention devices; "screw-on" spill containment and dry break buckets.

<u>STAGE I NON-ENHANCED VAPOR RECOVERY SYSTEM</u> as used in 310 CMR 7.24(3), means a vapor balance system certified by CARB to prevent discharge to the atmosphere of at least 95% by weight of vapors displaced during the transfer of motor vehicle fuel from a tank truck to a motor vehicle fuel storage tank.

<u>STAGE I ROUTINE MAINTENANCE</u> as used in 310 CMR 7.24(3), means the regular installation, repair or replacement of one or more Stage I system components including, but not limited to, bucket plow rings; "slip-on" spill containment and dry break buckets; "O" rings and seals; product adaptors; vapor adaptors; product caps; vapor caps; monitor caps; riser caps; drain valves; and pressure/vacuum vent valves.

<u>STAGE I SUBSTANTIAL MODIFICATION</u> as used in 310 CMR 7.24(3), means, the installation, repair or replacement of one or more Stage I system components requiring excavation below a shear valve or tank pad including, but not limited to, vent piping; vapor space tie bar; dual-point or co-axial Stage I systems; or motor vehicle fuel storage tanks.

<u>STAGE I SYSTEM</u> means a Stage I CARB EVR System, a Stage I Component EVR System, or a Stage I Non-enhanced vapor recovery system.

STAGE II MINOR MODIFICATION means, for the purposes of 310 CMR 7.24(6), the re-installation, repair or replacement of one or more Stage II System components that is not substantial including, but not limited to, less than 50% of the motor vehicle fuel dispensers (*e.g.*, one of four dispensers); a central vacuum unit of a Healy 400 ORVR nozzle system or Healy 600 nozzle system; ball float extractor valve housings; dispenser mounted vapor pumps; or "screw-on" spill or dry break buckets. If the re-installation, repair or replacement of Stage II System components occurs at a motor vehicle fuel dispensing facility with two or less dispensers, the re-installation, repair or replacement of only one of the motor vehicle fuel dispensers shall be a Minor Modification.

<u>STAGE II ROUTINE MAINTENANCE</u> means, for the purposes of 310 CMR 7.24(6), the regular reinstallation, repair or replacement of one or more Stage II System components including, but not limited to, hoses; nozzles; breakaways; swivels; hose retractors; bucket plow rings; "slip-on" spill or dry break buckets; "O" rings and seals; submersible pumps or suction pipes; fill adaptors; fill tubes; vapor adaptors; fill and vapor caps; drain valves; monitor caps; or riser caps.

<u>STAGE II SUBSTANTIAL MODIFICATION</u> means, for the purposes of 310 CMR 7.24(6), the reinstallation, repair or replacement of one or more Stage II System components including, but not limited to, 50% or more of the motor vehicle fuel dispensers (*e.g.*, two of four dispensers); the replacement of one type of Stage II system with another type (*e.g.*, replacement of a balance system with a vacuum assist system, or a Healy 400 ORVR nozzle system or Healy 600 nozzle system with a Healy VP-1000 system); or the re-installation, repair or replacement of Stage II System components requiring excavation below a shear valve or tank pad (*e.g.*, vapor return piping, vent piping, vapor space tie bar, two-point or coaxial Stage I systems; or motor vehicle fuel storage tanks). If the re-installation, repair or replacement of one or more Stage II System components occurs at a motor vehicle fuel dispensing facility with two or fewer dispensers, the re-installation, repair or replacement of all motor vehicle fuel dispensers shall be a Substantial Modification.

<u>STAGE II SYSTEM</u> as used in 310 CMR 7.24(6), means a vapor recovery system identified in an Executive Order and specifically designed for the purpose of controlling vapors during the direct dispensing of motor vehicle fuel to a motor vehicle.

<u>STANDARD CONDITIONS</u> mean a temperature of 20°C and pressure of 760 millimeters of mercury.

<u>STANDARD OPERATING PROCEDURE</u> (S.O.P.) means the specific procedure for operation of, and which minimizes the emission from, an air contamination source.

<u>STATE IMPLEMENTATION PLAN</u> ("<u>SIP</u>") means the most recently prepared plan or revision thereof required by the Federal Clean Air Act which has been approved by the U.S. EPA.

<u>STATIONARY COMBUSTION TURBINE</u> means any stationary internal combustion engine which operates with a rotary motion, including any simple cycle turbine, regenerative cycle turbine, or any turbine portion of a combined cycle steam/electric generating system that is not self propelled.

STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINE means any reciprocating internal combustion engine. It does not include an engine that is regulated by EPA as a non-road engine defined under 40 CFR 1068.30 or is self-propelled.

<u>STENCIL COATING</u> means an ink or pigmented coating which is rolled or brushed onto a template or stamp in order to add identifying letters, symbols, or numbers to motor vehicles, or their parts or components.

<u>STENCIL COATING</u> for purposes of 310 CMR 7.18(11)(b)2. and (21)(b)1., means an ink or a pigmented coating which is rolled or brushed onto a template or stamp in order to add identifying letters, symbols, and/or numbers.

<u>STENCIL COATING</u> for purposes of 310 CMR 7.18(21)(b)2., means a coating that is applied over a stencil to a plastic part at a thickness of one mil or less of coating solids. Stencil coatings are most frequently letters, numbers, or decorative designs.

<u>STOKER</u> means a boiler/furnace design that incorporates a feeding mechanism, fuel distribution and ash residue collection system for the purpose of introducing solid fuel into the combustion zone of the boiler/furnace by feeding the fuel onto a grate.

<u>STRUCTURAL MEMBER</u> means any load-supporting member of a facility including beams and load-supporting walls, or any nonload-supporting member including ceilings and nonload-supporting walls.

<u>STUDENT</u> means any daytime student who does not live at the educational institution and who travels to and from classes by any mode of travel.

<u>SUBMERGED FILLING</u> means the filling of a motor vehicle fuel storage tank through a pipe whose discharge opening is entirely submerged below the surface level of the liquid in the tank.

<u>SUBSTANTIAL RECONSTRUCTION</u> means any physical change in, or changes in the method of operation of a facility or its appurtenances which changes the amount of emissions from such facility.

<u>SUBSTRATE</u> means the surface onto which a coating, ink or other material is applied or impregnated.

<u>SULFUR IN FUEL</u> - for the purpose of 310 CMR 7.05, sulfur in fuel is as follows:

(a)	011			
	2.2% sulfur content	=	1.21	pounds of sulfur per million Btu heat release potential
	1% sulfur content	=	0.55	pounds of sulfur per million Btu heat release potential
	0.5% sulfur content	=	0.28	pounds of sulfur per million Btu heat release potential
(b)	Coal			
	1.57% sulfur content	=	1.21	pounds of sulfur per million Btu heat release potential
				(assuming 13,000 Btu per pound)
	0.72% sulfur content	=	0.55	pounds of sulfur per million Btu heat release potential
				(assuming 13,000 Btu per pound)
	0.36% sulfur content	=	0.28	pounds of sulfur per million Btu heat release potential
				(assuming 13,000 Btu per pound)

<u>SURFACE COATING</u> means a process whereby a layer of one substance is deposited on or in another material. The layer of coating may be used to decorate, bond, protect, strengthen, or impart other properties to substrate.

<u>SURFACE PREPARATION PRODUCT</u> means a product formulated to dissolve and remove tar, grease, wax, and other hydrophobic contaminants from a surface prior to application of a primer.

<u>SYNTHETIC ORGANIC CHEMICAL MANUFACTURING FACILITY</u> for the purpose of 310 CMR 7.18(19), means a facility which manufactures, as a final or intermediate product, polyethylene, polypropylene, polystyrene, methyl tert-butyl ether (MTBE), or one of the chemicals listed in 40 CFR Part 60.489.

<u>TANGENTIAL FIRING</u> means a furnace firing design where the burners are mounted at the corners of the furnace chamber.

<u>TANK TRUCK</u> means a truck or trailer equipped with a storage tank and used for the transport of motor vehicle fuel from sources of supply to stationary fuel tanks, or to motor vehicle fuel tanks.

<u>TEXTILE FINISHING</u> means the preparation, decorative enhancement, or functional enhancement of a natural or man-made textile substrate. Specific textile finishing processes include, but are not limited to, textile cleaning (desizing and scouring), bleaching, dyeing, printing, and final finishing.

<u>TEXTURE COATING</u> means a coating that is applied to a plastic part which, in its finished form, consists of discrete raised spots of the coating.

<u>THIN PARTICLEBOARD</u> means a manufactured board that is 0.25 inches or less in thickness, and made of individual wood particles that have been coated with a binder and formed into flat sheets by pressure.

<u>THIRD-PARTY VANPOOL PROGRAM</u> means a vanpool program operated by an organization other than an employer which acquires and provides vans to groups of interested commuters.

<u>THREE PIECE CAN SIDE SEAM SPRAY</u> means a coating sprayed on the exterior and interior of a welded, cemented or soldered seam to protect the exposed metal.

<u>THREE-STAGE COATING SYSTEM</u> means a topcoat system composed of a colored basecoat, a semi-transparent midcoat, and a final transparent clearcoat. For compliance purposes, the VOC content of three-stage coating systems shall meet the emission limitation for topcoats in Table 7.18(28)(c), and is calculated according to the following formula:

$$VOC T_{3-stage} = \frac{VOC_{bc} + VOC_{mc} + 2 VOC_{cc}}{4}$$

Where:

VOC $T_{3-stage}$ is the weighted average of the VOC content, as applied, in the basecoat, midcoat, and clearcoat system.

VOC_{bc} is the VOC content, as applied, of any given basecoat.

 VOC_{mc} is the VOC content, as applied, of any given midcoat.

 2VOC_{cc} is twice the VOC content, as applied, of any given clearcoat.

TILEBOARD means paneling that has a colored, waterproof surface coating.

<u>TOPCOAT</u> means the final film of coating applied in a multiple coat operation.

<u>TOTAL HALOGENS</u> means the total concentration, by weight, of fluorine, chlorine, bromine, and iodine, as measured by a method acceptable to the Department.

<u>TOUCH-UP COATING</u> means a coating applied by brush, airbrush, or non-refillable aerosol can of no more than eight ounces to cover minor surface damage and imperfections.

<u>TOUCH-UP COATING</u> for purposes of 310 CMR 7.18(11) and (21), means a coating used to cover minor coating imperfections that appear after the main coating operation is completed.

<u>TRANSFER EFFICIENCY</u> means the portion of coating solids which remain on the substrate during the application process, expressed as a percentage of the total volume of coating solids delivered by the applicator.

<u>TRANSLUCENT COATING</u> means a coating which contains binders and pigment, and is formulated to form a colored, but not opaque, film.

<u>TWO PIECE CAN EXTERIOR END COATING</u> means a coating applied by roller coating or spraying to the exterior end of a can to provide protection to the metal.

<u>TUNNEL VENTILATION SYSTEM</u> means any mechanical system which is designed to provide ventilation of any air contaminant regulated herein from any public roadway which is covered or otherwise enclosed in a tunnel or similar structure.

<u>TWO-STAGE TOPCOAT</u> means a basecoat/clearcoat system composed of a colored basecoat and a transparent final coat. For compliance purposes, the VOC content of basecoat/clearcoat systems shall meet the emission limitation for two-stage topcoats in 310 CMR: *Table* 7.18(28)(c), and shall be calculated according to the following formula:

$$VOC T_{bc/cc} = \frac{VOC_{bc} + 2 VOC_{cc}}{3}$$

Where:

VOC $T_{bc/cc}$ is the weighted average of the VOC content, as applied, in the basecoat (bc) and clearcoat (cc) system.

VOC_{bc} is the VOC content, as applied, of any given basecoat.

 2VOC_{cc} is twice the VOC content, as applied, of any given clearcoat.

<u>UNDERBODY COATING</u> means a coating designed for protection and sound deadening that is typically applied to the wheel wells and underbody of an automobile.

<u>UNIFORM FINISH BLENDER</u> means a coating designed to blend a repaired topcoat into an existing topcoat.

<u>UNIT TURNAROUND</u> for the purpose of 310 CMR 7.18(19), means unit shutdown and purge for internal inspection and repair.

<u>UNUSED WASTE OIL</u> means waste oil that is superfluous or abandoned fuel, storage tank bottoms, clean-out sludge, sludge from the separation of unused oil from a non-hazardous waste, contaminated oil resulting from the clean-up of a release of oil, and any other waste oil that is not used waste oil.

<u>USED WASTE OIL</u> means used and/or reprocessed, but not subsequently re-refined, waste oil that has served its original intended purpose. Such oil includes, but is not limited to, fuel oil, engine oil, gear oil, cutting oil, transmission fluid, and dielectric fluid.

<u>VACUUM ASSIST SYSTEM</u> means a Stage II system utilizing a pump, blower, or other vacuum inducing device, to collect and, or, process vapors during the dispensing of motor vehicle fuel.

<u>VACUUM METALLIZING</u> means a process whereby metal is vaporized and deposited on a substrate in a vacuum chamber.

VACUUM-METALLIZING COATING means:

- (a) the undercoat applied to a substrate on which the metal is deposited; or
- (b) the overcoat applied directly to the metal film.

<u>VAPOR</u> means the gaseous state of certain substances that can exist in equilibrium with their solid or liquid states under standard conditions.

<u>VAPOR BALANCE SYSTEM</u> means a vapor recovery system utilizing direct displacement to collect and/or process vapors during the transfer of motor vehicle fuel.

<u>VAPOR-MOUNTED SEAL</u> means a primary seal mounted so there is an annular vapor space underneath the seal. The annular vapor space is bounded by the bottom of the primary seal, the tank wall, the liquid surface, and the floating roof.

<u>VAPOR-TIGHT</u> means equipment that allows no loss of vapors. Compliance with vapor-tight requirements can be determined by checking to ensure that the concentration at a potential leak source is not equal to or greater than 100% of the Lower Explosive Limit when measured with a combustible gas detector, calibrated with propane, at a distance of one inch from the source.

<u>VINYL SURFACE COATING</u> means the application of a decorative, protective or functional coating and/or printing on vinyl coated fabric or vinyl sheets.

<u>VISIBLE EMISSIONS</u> for the purpose of 310 CMR 7.15, means any emissions that are detectable without the aid of instruments. This does not include condensed uncombined water vapor.

<u>VOC COMPOSITE PARTIAL PRESSURE</u> means the sum of the partial pressures of the compounds defined as VOC.

VOC Composite Partial Pressure is calculated as follows:

$$PP_{e} = \sum_{i=1}^{n} \frac{(W_{i})(VP_{i})/MW_{i})}{\frac{W_{w}}{MW_{w}} + \frac{W_{e}}{MW_{e}} + \sum_{i=1}^{n} \frac{W_{i}}{MW_{i}}}$$
Where:
Wi = Weight of the "i"th VOC compound, in grams
Ww = Weight of water, in grams
We = Weight of exempt compounds, in grams
Mwi = Molecular weight of the "i"th VOC compound, in g-mole
Mww = Molecular weight of water, in g-mole
Mwe = Molecular weight of exempt compound, in g-mole
PPc = VOC composite partial pressure, in mm Hg
VPi = Vapor pressure of the "i"th compound, in mm Hg
n = The number of VOC compounds

<u>VOLATILE ORGANIC COMPOUND (VOC)</u> means any compound of carbon which participates in atmospheric photochemical reactions. For the purpose of determining compliance, VOC is measured by the applicable reference test methods specified in 40 CFR 60. VOC includes all organic compounds except the following:

CAS Number	Chemical Name
67641	acetone,
124685	AMP (2-amino-2-methyl-1-propanol),
506876	ammonium carbonate,
540885	t-butyl acetate,
630080	carbon monoxide,
124389	carbon dioxide,
463796	carbonic acid,

(1(2))	
616386	dimethyl carbonate,
N/A	metallic carbides or carbonates,
74828	methane,
74840	ethane,
79209	methyl acetate,
71556	methyl chloroform (1,1,1-trichloroethane),
107313	methyl formate,
75092	methylene chloride, (dichloromethane),
98566	parachlorobenzotrifluoride (PCBTF),
127184	perchloroethylene (tetrachloroethylene),
108327	propylene carbonate,
75694	CFC-11 (trichlorofluoromethane),
75718	CFC-12 (dichlorodifluoromethane),
75456	CFC-22 (chlorodifluoromethane),
76131	CFC-113 (trichlorotrifluoroethane),
76142	CFC-114 (dichlorotetrafluoroethane),
76153	CFC-115 (chloropentafluoroethane),
593704	HCFC-31 (chlorofluoromethane),
306832	HCFC-123 (2,2-dichloro-1,1,1-trifluoroethane),
354234	HCFC-123a (1,2-dichloro-1,1,2-trifluoroethane),
2837890	HCFC-124 (2-chloro-1,1,1,2-tetrafluoroethane),
1717006	HCFC-141b (1,1-dichloro-1-fluoroethane),
75683	HCFC-142b (1-chloro-1,1-difluoroethane),
1615754	HCFC-151a (1-chloro-1-fluoroethane),
422560	HCFC-225ca (3,3-dichloro-1,1,1,2,2-pentafluoropropane),
507551	HCFC-225cb (1,3-dichloro-1,1,2,2,3-pentafluoropropane),
75467	HFC-23 (trifluoromethane),
75105	HFC-32 (difluoromethane),
354336	HFC-125 (pentafluoroethane),
359353	HFC-134 (1,1,2,2-tetrafluoroethane),
811972	HFC-134a (1,1,1,2-tetrafluoroethane),
4129462	HFC-143a (1,1,1-trifluoroethane),
75376	HFC-152a (1,1-difluoroethane),
353366	HFC-161 (ethylfluoride),
690391	HFC-236fa (1,1,1,3,3,3-hexafluoropropane),
679867	HFC-245ca (1,1,2,2,3-pentafluoropropane),
24270664	HFC-245ea (1,1,2,3,3-pentafluoropropane),
431312	HFC-245eb (1,1,1,2,3-pentafluoropropane),
460731	HFC-245fa (1,1,1,3,3-pentafluoropropane),
431630	HFC-236ea (1,1,1,2,3,3-hexafluoropropane),
431890	HFC-227ea (1,1,1,2,3,3)-hexandolopropane),
406586	HFC-365mfc (1,1,1,3,3-pentafluorobutane),
138495428	HFC 43-10mee (1,1,1,2,3,4,4,5,5,5-decafluoropentane),
1691174	HFE-134 (HCF ₂ OCF ₂ H),
78522471	HFE-236cal2 (HCF ₂ OCF ₂ OCF ₂ H),
188690780	HFE-338pcc13 (HCF ₂ OCF ₂ OCF ₂ OCF ₂ H),
188690779	H-Galden 1040X or H-Galden ZT 130 (or 150 or 180),
100070777	(HCF ₂ OCF ₂ OCF ₂ OCF ₂ H),
75031	HFE-7000 or n-C3F7OCH3 (1,1,1,2,2,3,3-heptafluoro-3-methoxy-
75051	· · · · · · · · · · · · · · · · · · ·
163702076	propane), HFE-7100 or C4F9OCH3 (1,1,1,2,2,3,3,4,4-nonafluoro-4-methoxy-
103/020/0	
162702007	butane), (2.6) (2.6) (1.1.1.2.2.2.2.
163702087	(CF3)2CFCF2OCH3 (2-(difluoromethoxymethyl)-1,1,1,2,3,3,3-
162702054	hepta-fluoropropane),
163702054	HFE-7200 or C4F9OC2H5 (1-ethoxy-1,1,2,2,3,3,4,4,4-
54276602	nonafluorobutane),
54376602	HFE-7300 or L-14787 or C2F5CF(OCH3)CF(CF3)2
	(1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-trifluoromethyl-
	pentane),

163702065	(CF3)2CFCF2OC2H5 (2-(ethoxydifluoromethyl)-1,1,1,2,3,3,3- hepta-fluoropropane),
297730939	HFE-7500 or HFE-s702 or T-7145 or L-15381 (3-ethoxy- 1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl) hexane)
754121	HFO-1234yf (2,3,3,3-tetrafluoropropene),
29118249	HFO-1234ze (trans-1,3,3,3-tetrafluoropropene),
N/A	Cyclic, branched, or linear, completely fluorinated alkanes,
N/A	Cyclic, branched, or linear, completely fluorinated ethers with no unsaturations,
N/A	Cyclic, branched, or linear, completely fluorinated tertiary amines with no unsaturations,
N/A	Cyclic, branched, or linear, completely methylated siloxanes,
102687650	Solstice TM 1233zd(E) (trans-1-chloro-3,3,3-trifluoroprop-1-ene),
N/A	Sulfur containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine.

<u>WASH COAT</u> means a coating containing binders that raises wood surfaces, prevents undesired staining and controls stain penetration.

WASTE

(a) Waste means any solid, liquid, semi-solid, or contained gaseous material, resulting from industrial, commercial, mining, or agricultural operations or from municipal activities, or any refuse, or sludge, which:

1. is sometimes discarded or is being accumulated, stored, or physically, chemically, or biologically treated prior to being discarded; or

2. has served its original intended purpose or is no longer suitable for its original intended purpose; or

3. is a manufacturing or mining by-product and sometimes is discarded; or

4. has served its original intended purpose and will be "used" as defined in 310 CMR 30.000.

- (b) A material is discarded if it is:
 - 1. abandoned or intended to be abandoned;
 - 2. disposed of;
 - 3. incinerated; or

4. physically, chemically, or biologically treated in *lieu* of or prior to being disposed of or abandoned.

(c) A manufacturing or mining by-product is a material that is not one of the primary products of a particular manufacturing or mining operation, is a secondary and incidental product of the particular operation and would not be solely and separately manufactured or mined by the particular manufacturing or mining operation. The term does not include an intermediate manufacturing or mining product which results form one of the steps in a manufacturing or mining process and is typically processed through the next step of the process within a short time.

(d) Materials, which have been approved by the Department for reuse or burning as a fuel at the site of generation pursuant to 310 CMR 30.200, are not wastes.

<u>WATER BASED INK/COATING/ADHESIVES</u> means an ink, coating, or adhesive with VOC content less than or equal to 10% by weight as applied.

<u>WATER HOLD-OUT COATING</u> means a coating applied to the interior cavity areas of doors, quarter panels, and rocker panels for the purpose of corrosion resistance to prolonged water exposure.

WAXY, HEAVY POUR CRUDE OIL means a crude oil with a pour point of 50°F or higher as determined by ASTM D97-66 "Test for Pour Point of Petroleum Oils."

WEB means a continuous roll of paper or other material which is used as a substrate.

<u>WELD-THROUGH PRIMER</u> means a primer that is applied to an area before welding is performed, and that provides corrosion resistance to the surface after welding has been performed.

<u>WOOD PRODUCT</u> means any product made of wood or a wood composite including, but not limited to: kitchen cabinets, equipment cabinets, household furniture, and office furniture, but excluding flat wood panels.

<u>WOOD PRODUCTS SURFACE COATING</u> means the coating of a wood product to impart properties that are not initially present, such as strength, stability, water or chemical repellency, or appearance.

NON-TEXT PAGE

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

7.01: General Regulations to Prevent Air Pollution

(1) No person owning, leasing, or controlling the operation of any air contamination source shall willfully, negligently, or through failure to provide necessary equipment or to take necessary precautions, permit any emission from said air contamination source or sources of such quantities of air contaminants which will cause, by themselves or in conjunction with other air contaminants, a condition of air pollution.

(2) (a) <u>Accurate Submittal to the Department</u> No person shall make any false, inaccurate, incomplete, or misleading statements in any application, record, report, plan, design, statement or document which that person submits to the Department pursuant to M.G.L. c. 111, §§ 142A through 142M, M.G.L. c. 111, § 150A, c. 21H, or 310 CMR 7.00.
(b) <u>Accurate and Complete Record Keeping</u> No person shall make any false, inaccurate, incomplete or misleading statements in any record, report, plan, file, log, or register which that person is required to keep pursuant to M.G.L. c. 111, §§ 142A through 142M, M.G.L. c. 111, §§ 150A, c. 21H, or 310 CMR 7.00. Such records shall be made available to the Department for inspection upon request.

(c) <u>Certification</u> Any person providing information required to be submitted to the Department pursuant to M.G.L. c. 111, §§ 142A through 142M, M.G.L. c. 111, § 150A, c. 21H, or 310 CMR 7.00 *et seq.* shall make the following certification: "I certify that I have personally examined the foregoing and am familiar with the information contained in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment."

(d) <u>Change in Ownership</u>. Any person owning, operating or leasing a facility for which a notification or certification submitted to the Department under these regulations is in effect, or a plan approval, emission control plan, operating permit, certification, restricted emission status or any other approval issued by the Department is in effect, who transfers responsibility, coverage and liability, shall provide a written notification of said action to the Department containing the specific date of the transfer of responsibility, coverage, and liability between the current and new owner, operator or lessor.

(3) Any person subject to 310 CMR 7.00, who submits a notification (*e.g.*, 310 CMR 7.02(11)) or certification (*e.g.*, 310 CMR 7.26); or obtains a restricted emission status approval, plan approval, emission control plan approval, operating permit or other approval issued by the Department, shall comply with the terms and conditions contained therein.

(4) <u>Computation of Time</u>. Unless otherwise specifically provided by statute or 310 CMR 7.00, any time period prescribed or referred to in 310 CMR 7.00 or in any action taken pursuant to 310 CMR 7.00 shall begin with the first day following the act which initiates the running of the time period, and shall include every calendar day, including the last day of the time period so computed. If the last day is a Saturday, Sunday, legal holiday, or any other day on which the Department's offices are closed, the deadline shall run until the end of the next business day. If the time period described or referred to is seven days or less, only days when the offices of the Department are open shall be included in the computation. Where used, the term working days shall refer to any full day on which the Department office is open for public business.

7.02: U Plan Approval and Emission Limitations

- (1) Purpose and Applicability.
 - (a) <u>Purpose</u>. The purpose of 310 CMR 7.02 is to provide procedures and standards for the issuance of approvals in the Commonwealth of Massachusetts, and establish emission limitations and/or restrictions for a facility or emission unit.

(b) <u>Plan Approvals to Construct, Substantially Reconstruct or Alter</u>. Except as provided in 310 CMR 7.02(2), a plan approval is required prior to any construction, substantial reconstruction, alteration, or subsequent operation of a facility or emission unit that may emit air contaminants to the ambient air.

(c) <u>Reserved</u>.

(d) Determining Plan Approval Applicability. For the portion of the facility or emission unit that is proposed to be constructed, substantially reconstructed or altered and subsequently operated, the need for a plan approval is determined by comparing the maximum design capacity of the proposed equipment for fuel utilization facilities or the potential to emit to the plan approval thresholds in 310 CMR 7.02(4) and 310 CMR 7.02(5). For the air contaminant GHGs, the potential to emit shall be determined based on tons per year CO₂e, and 310 CMR 7.02 shall be applicable to GHGs only if construction, substantial reconstruction or alteration of a facility or emission unit results in an increase in potential emissions equal to or greater than 75,000 tons per year CO₂e. If a plan approval is required due to potential emissions of GHGs, a comprehensive plan approval shall be required pursuant to 310 CMR 7.02(5).

(e) <u>Department Participation</u>. In approving or denying an application for plan approval, the Department shall limit its action to matters that may cause or contribute to a condition of air pollution.

(2) <u>Exemptions from Plan Approval</u>.

(a) <u>Introduction</u>. 310 CMR 7.02(2)(b) specifies changes that may be made at a facility that are exempt from the approval requirements of 310 CMR 7.02(4) and (5). 310 CMR 7.02(2)(c) specifies situations that are not eligible for such exemption. 310 CMR 7.02(2)(d) through (f) specify record keeping, reporting and enforcement provisions.

(b) <u>Exemptions</u>. Except as provided by 310 CMR 7.02(2)(c), construction, substantial reconstruction or alteration of a facility or emission unit is exempt from the requirement to obtain a plan approval under 310 CMR 7.02(4) if it qualifies as one or more of the following:

1. <u>Air Pollution Control Equipment</u>. An air pollution control device, excluding oxidizers or afterburners, added to any facility currently in compliance with the provisions of 310 CMR 7.02. This exemption is only available where the air pollution control equipment is not otherwise required by regulation, the air pollution control equipment does not increase the potential emissions of any single criteria pollutant or any single non-criteria pollutant by one ton or more as calculated over any 12 consecutive month time period, and the air pollution control equipment does not replace an existing air pollution control device required by plan approval or regulation.

2. <u>Air Pollution Control Equipment for Control of Particulate</u>. Replacement of an existing air pollution control device for particulate matter (*e.g.*, baghouse), even if required by a plan approval. The replacement device shall be similar in design as the existing control device, and the same size or larger than the original control device. The replacement control device must be designed to achieve the same or better collection efficiency as the original control device. The Department must be notified in writing that a particulate air pollution control device is going to be replaced. This notification must be made at least 30 days prior to installation of the new unit. Said notification shall include a full description of the replacement control device.

3. <u>Battery Charging</u>. Battery charging facilities used to charge lead acid batteries.

4. <u>Reserved</u>.

5. <u>Burner Tip Replacement</u>. A fuel utilization facility burner tip replacement.

6. <u>Cooling Towers</u>. A cooling tower that has maximum recirculation rate of 20,000 gallons per minute (gpm) or less, a drift eliminator, a non-chromium inhibitor, and has total dissolved solids concentration in the blowdown less than 1800 mg/l. The total dissolved solids concentration shall be determined using Part 2540C as published in the latest edition of *Standard Methods For the Examination of Water and Wastewater* as published by the American Public Health Association, American Waterworks Association and Water Pollution Control Federation or by an equivalent method approved by the Department.

7. <u>De Minimis Increase in Emissions</u>. Construction, substantial reconstruction, or alteration that results in an increase in potential emissions of less than one ton of any air contaminant, calculated over any 12 consecutive month time period. In order to determine eligibility under 310 CMR 7.02(2)(b)7., emissions shall be calculated based on the increase in potential emissions (as defined in 310 CMR 7.00) of the planned action. Reductions in emissions resulting from reduced utilization or elimination of emission units cannot be deducted. Products of combustion from any fuel utilization

facility and emissions from an emission unit(s) installed in compliance with 310 CMR 7.03 or 7.26 are not included when calculating an increase in potential emissions for the purpose of determining applicability under 310 CMR 7.02(4)(a)1. or 2. or 7.02(5)(a)1., 2. or 3. (*See* also 310 CMR 7.02(6)).

8. Emergency Engines or Stand-by Engines. (Reserved).

9. <u>Emergency Release Containment</u>. An area constructed for the containment of unplanned releases.

10. <u>Fire Suppression Systems</u>. Fire protection, fire fighting and fire suppression system, except for those fire suppression systems and activities associated with the intentional combustion of materials for the purpose of fire suppression system evaluation or fire science research.

11. <u>Fuel and Chemical Storage Tanks</u>. Organic liquid storage tanks with a capacity less than or equal to 40,000 gallons and used exclusively to store product with a vapor pressure of less than 1.5 psi at the average annual ambient temperature. Storage tanks subject to this exemption must be equipped with conservation vents and aboveground units shall have a white or reflective surface. Organic liquid storage tanks may be subject to 40 CFR Part 60, subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for which construction, substantial reconstruction, or modification commenced after July 23, 1984. 12 <u>Fuel Atomization Equipment</u>. Fuel utilization facility burner atomization equipment replacement or repair. Replacement of steam or air atomization with mechanical atomization is not eligible under this exemption.

13. <u>Fuel Loading Racks</u>. Organic liquid transfer racks that transfer less than 172,000 gallons per year of organic liquids or organic liquid transfer racks that transfer exclusively organic liquids with a vapor pressure of less than 1.5 psi at the average ambient annual temperature. Transfer racks eligible under this exemption must comply with the requirements of 310 CMR 7.24, as applicable.

14. <u>Fuel Switching</u>. Conversion of a fuel utilization facility rated at a maximum heat input capacity of less than 100,000,000 Btu per hour energy input where the unit is converted from oil or solid fuel to oil/natural gas dual-fuel capability or natural gas as the only fuel. For purposes of this exemption, a fuel utilization facility is defined as any single boiler, hot oil generator, melt furnace, process heater, oven or similar fuel burning unit as determined by the Department.

15. Fuel Utilization Facilities. (Reserved).

16. <u>Insignificant Activities</u>. An activity listed in 310 CMR 7.00: *Appendix C* (5)(i), as well as office equipment, static electricity reduction devices, electric arcs, and motors that generate ozone.

17. <u>Maintenance or Repair</u>. Routine maintenance or repair of a facility.

18. <u>Mixing and Blending Equipment</u>. Equipment used exclusively to mix or blend materials at ambient temperatures to make water-based solutions containing no more than 5% volatile organic compound (VOC) by weight.

19. <u>Molding</u>. Plastic injection or compression molding machines. Extrusion molding and blow molding is not eligible under this exemption.

20. <u>Motor Vehicle Maintenance</u>. Motor vehicle maintenance and repair facilities. Automobile refinishing facilities are not eligible under this exemption.

21. <u>Operating Hours</u>. An increase in the hours of production of a facility not otherwise restricted.

22. <u>Operating Rate/Product Changes</u>. An increase in the rate of production at a facility not otherwise restricted.

23. <u>Ownership</u>. A change in facility ownership. The new owner shall notify the Department in writing of the ownership change within 60 days of the effective date of the change.

24. <u>Plan Approval by Rule</u>. An emission unit listed in 310 CMR 7.03 provided that the emission unit fully conforms to the design, operation, maintenance, and record keeping requirements of 310 CMR 7.03.

25. <u>Plumbing</u>. Plumbing soil stacks or vents.

26. <u>Pressure Relief Devices</u>. Safety pressure relief devices associated with emission units having plan approvals, unless otherwise required by the Department.

27. <u>Relocation of Approved Equipment</u>. Relocation of any previously approved equipment, provided that the equipment is relocated within the facility or to a contiguous property and provided that the relocated equipment does not cause or contribute to a condition of air pollution.

28. <u>Thermal and Catalytic Oxidizers</u>. A process emission oxidizer or afterburner with a rated capacity of less than 40,000,000 Btu per hour using natural gas and installed on a previously approved facility or on a new facility which otherwise meets the plan approval exemptions provided in 310 CMR 7.02(2). This exemption is only available where the air pollution control equipment is not otherwise required by regulation, and the air pollution control equipment does not replace existing air pollution control equipment required by plan approval or regulation. Flares are not eligible under this exemption. Persons installing thermal or catalytic oxidizers as allowed by this exemption shall notify the Department, within 60 days of installation, that oxidizers have been installed.

29. Turbines and Reciprocating Engines. (Reserved).

30. <u>Wastewater Treatment</u>. Wastewater treatment and/or pumping facilities with average daily input flows of less than 50,000 gallons per day, and that treat sanitary sewage exclusively.

31. <u>Water Treatment</u>. Water treatment systems for process cooling water or boiler feed water.

32. <u>RACT, Organic Material Storage and Distribution, ERP, or NO_x Ozone Season</u> <u>Program</u>. Construction, substantial reconstruction or alteration required to comply with the requirements of 310 CMR 7.18, 7.19, 7.24, 7.26 or 7.34. This exception does not apply to any boiler complying with the repowering provisions of 310 CMR 7.19(4)(b), any printer complying with 310 CMR 7.26(23)(a)3., or any wood fuel-fired boiler.

33. <u>Actions that Contravene an Issued Plan Approval</u>. Except as provided in 310 CMR 7.02(2)(b)33.a. and b., the construction, substantial reconstruction, or alteration of a facility or emission unit that would contravene an issued plan approval does not require a new plan approval, provided that the planned construction, substantial reconstruction, or alteration does not increase potential emissions by one ton per year or more above the emission limitation established by the issued plan approval. Persons constructing, substantially reconstructing or altering a facility or emission unit as allowed by this exemption shall notify the Department within 30 days of any such action. In order to determine applicability under 310 CMR 7.02(2)(b)33., emissions shall be calculated based on the increase in potential emissions (as defined in 310 CMR 7.00) of the planned action. Reductions in emissions resulting from reduced utilization or elimination of emission units cannot be deducted. Products of combustion from any fuel utilization facility and emissions from an emission unit(s) installed in compliance with 310 CMR 7.02 are not included when calculating an increase in potential emissions.

a. Notwithstanding the provisions of 310 CMR 7.02(2)(b)33., the provisions of 310 CMR 7.02(4) and (5) requiring a written plan approval shall apply to any construction, substantial reconstruction, or alteration of a facility or emission unit that would contravene those provisions of an issued plan approval that require:

i. emission control equipment design specifications; or

ii. emission control equipment capture and/or destruction efficiency standards; or

iii. emission limits (except emission limits per year or rolling 12-month average); or

iv. air contaminant ventilation characteristics such as stack height; or

v. limitations on the VOC/HOC content of coatings; or

vi. recordkeeping, monitoring, testing or reporting requirements.

b. Where the action would result in an increase in allowable or potential emissions above limits established in an approved RES, the RES must be modified as described in 310 CMR 7.02(10).

34. <u>Biotechnology Laboratory</u>. A laboratory used solely for research, development or support for medical device, drug, or biologic products derived in whole or in part from biotechnology, and such products are either undergoing preclinical research in preparation for, or are the subject of, one of the following U.S. Food and Drug Administration (FDA) regulatory applications or notices: an Investigational New Drug Application, an Investigational Device Exemption Notice, a New Drug Application, premarket approval application, premarket notification pursuant to section 510(k) of the federal Food, Drug and Cosmetic Act (510(k)) and any other product exempted by FDA from the 510(k) premarket notification requirement.

(c) <u>Exclusions from Exemptions</u>. Notwithstanding the provisions of 310 CMR 7.02(2)(a) and (b), the provisions 310 CMR 7.02(4) and (5) requiring a written plan approval shall apply to construction, substantial reconstruction or alteration of a facility or emission unit that:

1. is specifically included in 310 CMR 7.02(4)(a)3. or 4.; or

2. is specifically included in 310 CMR 7.02(5)(a)5. through 11.; or

3. would cause increases in aggregate emissions pursuant to 310 CMR 7.02(6) that equal or exceed plan approval thresholds in 310 CMR 7.02(5)(a)6; or

4. would cause or contribute to a condition of air pollution under 310 CMR 7.02(7); or
5. would cause a facility to become subject to 310 CMR 7.00: *Appendix C*.

(d) <u>Recordkeeping</u>. The owner or operator of a facility or emission unit that is exempt from plan approval under 310 CMR 7.02(2)(b) shall keep the following records on-site and up-to-date, such that year-to-date information is readily available for Department examination upon request:

1. Documentation of the date of construction, substantial reconstruction or alteration.

2. Documentation, including emission calculations, under the specific condition(s) that qualifies the activity for exemption (*e.g.*, size threshold, emissions).

3. Air pollution control and other equipment performance specifications.

4. Verification of the overall efficiency of any air pollution control device adequate to support assumptions of emission control equipment capture efficiency (documentation of permanent total enclosures) and destruction/removal efficiency.

of permanent total enclosures) and destruction

(e) <u>Reporting</u>.

1. The owner or operator of a facility subject to the Source Registration reporting requirements of 310 CMR 7.12, shall report the construction, substantial reconstruction or alteration activities that qualified for exemption in the next required Source Registration. Quantification of emissions from exempt activities is not required unless specifically requested.

2. The owner or operator of a facility required to report under 310 CMR 7.02(2)(b)33. for contravening the provisions of a plan approval shall submit the report within 30 days of said action.

(f) <u>Enforcement</u>. If construction, substantial reconstruction, alteration or operation of an emission unit for which an exemption from plan approval is claimed, violates any provisions of 310 CMR 7.00, the person owning, leasing, operating or controlling the facility will be subject to enforcement under M.G.L. c. 111, §§ 142A and B, and M.G.L. c. 21A, § 16 and/or any other relief or remedy provided by law including, but not limited to, injunctive relief.

(3) General Requirements for Plan Approval.

(a) <u>General</u>. No person shall construct, substantially reconstruct, alter, or subsequently operate any facility subject to the requirements of 310 CMR 7.02(4) or (5), unless an application for a plan approval has been submitted to the Department and plan approval has been granted by the Department. Procedures and contents of an application for plan approval can be found at 310 CMR 7.02(4) and (5).

(b) <u>Form of Approval</u>. Any plan approval or plan disapproval will be issued by the Department in writing. If a plan application is disapproved, the Department will provide a written explanation of the circumstances that led to the decision to disapprove the application.

(c) <u>Conditions of Approval</u>. The Department may impose any reasonable conditions in a plan approval including conditions determined to be necessary to insure that the facility will be built, operated, and maintained as specified in the application for plan approval.

(d) <u>Monitoring and Testing</u>. The Department may require the applicant to monitor and/or test emissions as a condition of approval. The plan approval may include conditions that direct the applicant to install sampling ports of a specified size, number or location, direct the applicant to provide safe access to each sampling port or direct the applicant to install instrumentation to monitor and record emissions data and/or operating parameters.

(e) <u>Recordkeeping and Reporting</u>. The Department may require an applicant to maintain records and provide periodic reports to the Department, as necessary, to assure continuous compliance with standard operating procedures, standard maintenance procedures, emission limitations, and any work practices contained in the plan approval.

(f) <u>Compliance with Plan Approvals</u>. Other than as provided in 310 CMR 7.02(2)(f), no person shall operate a facility approved under 310 CMR 7.02, except in compliance with any plan approval issued to the facility. A plan approval does not reduce or negate the responsibility of the facility owner or operator to comply with any other applicable requirements of the Department.

(g) <u>Massachusetts Environmental Policy Act (MEPA) Review</u>. Prior to obtaining a plan approval, an applicant must comply with the requirements of 301 CMR 11.00 if applicable. The review thresholds for stationary sources of criteria or hazardous air pollutants are contained at 301 CMR 11.03(8): *Air*.

(h) <u>Opportunity for Comment</u>. The Department shall provide an opportunity for public comment in accordance with 310 CMR 7.02(3)(i) on the Department's proposed decision to approve or deny a plan application required under:

1. 310 CMR 7.02(4) (LPA) for any facility that meets or exceeds a MEPA Review threshold for stationary sources of criteria or hazardous air pollutants, contained at 301 CMR 11.03(8): *Air*; and

2. 310 CMR 7.02(5) (CPA).

(i) <u>Public Comment Procedures</u>. For each plan application subject to 310 CMR 7.02(3)(h), the Department shall:

1. Provide a 30-day period for submittal of public comment;

2. Post on a public website identified by the Department (which may be the Department's website), for the duration of the public comment period, the following:

a. A notice of availability of the Department's proposed decision to approve or deny the plan application and information on how to submit public comment;

b. The Department's proposed decision to approve or deny the plan application;

c. Information on how to access the administrative record for the Department's proposed decision to approve or deny the plan application.

3. Send a copy of the notice required in 310 CMR 7.02(3)(i)2.a. to EPA.

(j) <u>Department Approval</u>. Plan approval will be issued by the Department where:

1. The emissions from a facility do not result in air quality exceeding either the Massachusetts or National Ambient Air Quality Standards; and

2. The emissions from the facility do not exceed applicable emission limitations specified in 310 CMR 7.00; and

3. The emissions from the facility do not result in violation of any provision of 310 CMR 7.00; and

4. The facility does not require a plan approval pursuant to 310 CMR 7.00: *Appendix A* or the plan approval requirements of 310 CMR 7.00: *Appendix A* have been met by the application and a 310 CMR 7.00: *Appendix A* plan approval has been issued by the Department. The Department has the discretion to issue the 310 CMR 7.00: *Appendix A* plan approval in conjunction with a 310 CMR 7.02 plan approval; and

5. <u>Reserved</u>.

6. The emissions from such a facility or operation of such a facility represent the most stringent emission limitation as specified in 310 CMR 7.02(8); and

7. The owner or operator of the facility has made a demonstration of compliance required under 310 CMR 7.02(4)(d)5. or 310 CMR 7.02(5)(c)8.; and

8. The requirements of 40 CFR Part 63.40 through 40 CFR Part 63.44 are applicable and have been met and an approval has been issued as required by 40 CFR Part 63.40 through 40 CFR Part 63.44. The Department has the discretion to issue an approval under 40 CFR Part 63.40 through 40 CFR Part 63.44 in conjunction with a plan approval issued under 310 CMR 7.02.

(k) <u>Plan Approval Revocation</u>. The Department may revoke any plan approval if construction has not commenced within two years of the date of a plan approval or, if during construction, construction is suspended for a period of one year or more. For purposes of 310 CMR 7.02(3)(k), construction has commenced if the owner or operator of the facility has begun a continuous program of physical on-site construction of the facility or emission unit that is permanent in nature.

(1) <u>Plan Approval Duration</u>. Plan approvals are valid for the life of the emission unit or facility, regardless of changes in ownership. Plan approvals issued to a facility that changes ownership, are binding upon the new owner. (*See* 310 CMR 7.02(2)(b)23.)

(m) <u>Reactivating an Inactive Emission Unit</u>. Any person who owns, operates or controls an emission unit or facility that has not operated for at least 24 hours in each of the most recent two calendar years is required to obtain a new plan approval prior to re-commencing operation of that emission unit unless sufficient evidence is presented to convince the Department that the shutdown was temporary and the re-startup could occur within a short time period in full compliance with 310 CMR 7.00. Such evidence shall include documentation showing that during the shutdown period:

1. Continued maintenance of the equipment was performed,

2. There has been compliance with all regulatory requirements such as installation of any monitoring equipment, instrumentation, control equipment, or process controls,

3. The facility or unit was included in Source Registration submissions to the Department pursuant to 310 CMR 7.12, and

4. Any other relevant supporting information.

If the facility does not, in the judgment of the Department, submit sufficient evidence to demonstrate to the Department that the shutdown was temporary, then the Department may revoke the plan approval. If the Department revokes the plan approval, the facility must obtain a new plan approval prior to re-commencing operation of that facility or emission unit.

(n) <u>Prohibitions</u>.

1. <u>Concealing Emissions</u>. No person shall cause, suffer, allow, or permit the installation or use of any material, article, machine, equipment, or contrivance which conceals an emission without reducing the total weight of emissions where such emission would constitute a violation of any applicable regulation.

2. <u>Air Pollution Control Equipment</u>. No person shall cause, suffer, allow or permit the removal, alteration or shall otherwise render inoperable any air pollution control equipment or equipment used to monitor emissions that is required by 310 CMR 7.00, without specific written authority of the Department or in conformance with the specific exemptions listed in 310 CMR 7.02(2). An exception to 310 CMR 7.02(3)(n)2. is allowed for reasonable maintenance periods or unexpected and unavoidable failure of the equipment provided that the Department is notified, in writing, within 24 hours of the occurrence of such failure.

(4) <u>Limited Plan Application (LPA)</u>.

(a) <u>Applicability</u>. Calculation of potential emissions associated with an LPA shall be in accordance with 310 CMR 7.02(4)(b). An LPA is required from any person prior to constructing, substantially reconstructing, altering, or subsequently operating any facility or emission unit described as follows:

1. <u>Emission Increase of Less than Ten Tons per Year</u>. Any facility where the construction, substantial reconstruction, alteration or subsequent operation would result in an increase in potential emissions of a single air contaminant equal to or greater than one ton per year and less than ten tons per year, calculated over any consecutive 12-month time period.

2. <u>Fuel Utilization Emission Units</u>. Any fuel utilization emissions unit, excluding internal combustion engines such as combustion turbines or reciprocating engines, where construction, substantial reconstruction, alteration or subsequent operation results in an increase in potential emissions of a single air contaminant equal to or greater than one ton per year and the emission unit has a maximum energy input capacity equal to or greater than:

a. 10,000,000 Btu and less than 40,000,000 Btu per hour utilizing natural gas or propane;

b. 10,000,000 Btu and less than 40,000,000 Btu per hour utilizing distillate fuel oil; c. 10,000,000 Btu and less than 20,000,000 Btu per hour utilizing residual fuel oil having a sulfur content of equal to or less than 0.28 pounds per million Btu heat release potential (approximately equal to 0.5% sulfur by weight). (Also *see* 310 CMR 7.05(1) and (2));

d. 5,000,000 Btu and less than 10,000,000 Btu per hour utilizing residual fuel oil having a sulfur content of less than 0.55 pounds per million Btu heat release (approximately equal to 1% sulfur by weight). (Also *see* 310 CMR 7.05(1) and (2)); or

e. 3,000,000 Btu and less than 10,000,000 Btu per hour utilizing used oil fuel. (Also *see* 310 CMR 7.04(9), and 7.05(7) through (9).)

<u>NOTE</u>: Multiple fuel utilization emission units constructed or modified at a single facility must be evaluated for aggregate emissions to ensure that 310 CMR 7.00: *Appendix A* or PSD (40 CFR 52.21) is not triggered.

3. <u>Modification of Plan Approval Terms and Conditions</u>. Except as provided in 310 CMR 7.02(5) and (6), construction, substantial reconstruction, alteration or subsequent operation of a facility that would contravene the terms and conditions in an existing plan approval, provided that:

a. The planned construction, substantial reconstruction, alteration or subsequent operation would increase potential emissions by equal to or greater than one ton per year but less than ten tons per year, calculated over any consecutive 12-month time period, over the emission limitation established by an existing plan approval, and b. The planned construction, substantial reconstruction, alteration, or subsequent operation would only affect the:

- i. Allowable or potential emission rates; or
- ii. Operating hours; or
- iii. Process feed rates; or

iv. A combination of 310 CMR 7.02(4)(a)3.b.i. through iii.

Actions that would contravene emission control equipment design specifications, capture and/or destruction efficiency standards for control equipment, emission limits established by a BACT approval, air contaminant ventilation characteristics such as a reduction in stack height, or limitations on the VOC/HOC content of coatings, require a plan approval. Where the action would result in an increase in allowable or potential emissions above limits established in an approved RES, the RES must be modified as described in 310 CMR 7.02(10). In order to determine applicability under 310 CMR 7.02(4)(a)3.b., emissions must be calculated in accordance with 310 CMR 7.02(4)(b).

4. <u>Applicability of Non-attainment, PSD, or MACT Review</u>. Unless enforceable restrictions are established, any construction, substantial reconstruction, alteration or subsequent operation that would result in a portion or all of the facility being subject to:

- a. Emission Offsets and Non-attainment Review at 310 CMR 7.00: *Appendix A*;b. PSD Permitting at 40 CFR Part 52.21;
- c. 40 CFR Part 63.40 through 40 CFR Part 63.44; or
- d. 310 CMR 7.00: *Appendix C*.

(b) <u>Calculation of Emissions</u>. Calculation of potential emissions associated with an LPA must be based on the potential emissions (as defined in 310 CMR 7.00) of the proposed construction, substantial reconstruction or alteration. Limitations on the potential emissions proposed in the application must be made enforceable as a practical matter to be federally enforceable (*see* 310 CMR 7.00: *Federal Potential to Emit*). Reductions in emissions resulting from reduced utilization or elimination of an existing emission unit cannot be deducted, (*i.e.*, no netting). Products of combustion are not included when calculating applicability under 310 CMR 7.03 or 310 CMR 7.26 are not included when calculating an increase in potential emissions for purposes of determining applicability under 310 CMR 7.02(4)(a)1. and 2.

(c) Reserved.

(d) <u>Limited Plan Application Requirements</u>. To apply for an LPA, an applicant shall satisfy each of the following conditions:

1. The application shall be made on a form furnished by the Department or by other means required by the Department.

2. The application shall be signed by a responsible official.

3. The application shall be submitted in duplicate.

4. The application shall be accompanied by sufficient information to document the facility's potential emissions.

5. The application shall contain an affirmative demonstration that any facility in Massachusetts owned or operated by such persons (or by an entity controlling, controlled by or under common control with such person) that is subject to 310 CMR 7.00, is in compliance with or on a Department approved compliance schedule to meet all provisions of 310 CMR 7.00 and any plan approval, notice of noncompliance order or plan approval issued thereunder.

(5) <u>Comprehensive Plan Application (CPA)</u>.

(a) <u>Applicability</u>. Calculation of potential emissions associated with a CPA shall be in accordance with 310 CMR 7.02(5)(b) and 310 CMR 7.02(1)(d) for GHGs. A CPA is required from any person prior to constructing, substantially reconstructing, altering or subsequently operating any facility or emission unit as follows:

1. <u>Emission Increase Greater than or Equal to Ten Tons Per Year</u>. Any facility where the construction, substantial reconstruction, alteration or subsequent operation would result in an increase in potential emissions of a single air contaminant equal to or greater than ten tons per year, calculated over any consecutive 12-month time period.

2. <u>Fuel Utilization Emission Units</u>. Any fuel utilization emission unit, excluding internal combustion engines such as combustion turbines or reciprocating engines, where construction, substantial reconstruction, alteration or subsequent operation results in an increase in potential emissions of a single air contaminant of equal to or greater than one ton per year, and said emission unit has a maximum energy input capacity equal to or greater than:

a. 40,000,000 Btu per hour utilizing natural gas or propane.

b. 40,000,000 Btu per hour utilizing distillate fuel oil.

c. 20,000,000 Btu per hour utilizing residual fuel oil having a sulfur content of equal to or less that 0.28 pounds per million Btu heat release potential (approximately equal to 0.5% sulfur by weight).

d. 10,000,000 Btu per hour utilizing residual fuel oil having a sulfur content of less than 0.55 pounds per million Btu heat release (approximately equal to 1% sulfur by weight) or used oil fuel (See also the requirements of 310 CMR 7.04(9) and 310 CMR 7.05(7), (8) and (9)).

e. 3,000,000 Btu per hour utilizing:

i. Residual fuel oil having a sulfur content greater than 0.55 pounds per million Btu but not in excess of 1.21 pounds per million Btu heat release potential (greater than 1% sulfur by weight but less than or equal to approximately 2.2% sulfur by weight).

ii. Hazardous waste fuel.

- iii. Solid fuel with automatic fuel feed.
- iv. Landfill gas.
- v. Digester gas.

NOTE: Multiple fuel utilization emission units installed at a facility must be evaluated for aggregate emissions to ensure that 310 CMR 7.00: Appendix A or PSD (40 CFR 52.21) is not triggered.

3. Internal Combustion Engines and Turbines.

Prior to March 23, 2006 an internal combustion engine, such as a stationary combustion turbine or a stationary reciprocating engine, having a maximum energy input capacity equal to or greater than 3,000,000 Btu per hour, and the construction, substantial reconstruction, alteration or subsequent operation results in an increase in potential emissions of a single air contaminant of equal to or greater than one ton per year.

b. On and after March 23, 2006 a non-emergency turbine with a rated output of less than one megawatt (MW) burning fuel oil, or greater than ten MW burning any fuel. An engine for which the owner/operator elects to apply for a plan approval c. pursuant to 310 CMR 7.02(5)(c) in *lieu* of complying with 310 CMR 7.26(42) or 310 CMR 7.26(43).

d. A combined heat and power project (CHP) for which the owner/operator elects to apply for a plan approval pursuant to 310 CMR 7.02(5)(c) in *lieu* of complying with 310 CMR 7.26(45).

4. Hand-fired Solid Fuel Utilization Facilities. Any hand fired solid fuel utilization facility having an energy input capacity equal to or greater than 1,000,000 Btu per hour.

5. Incinerators. Any incinerator.

Aggregated De Minimis Emission Increases. Any facility where the sum of the 6. incremental changes (less than one ton each) in potential to emit, calculated over any consecutive 12-month time period, equals or exceeds ten tons for any single criteria pollutant or any single non-criteria pollutant. (See 310 CMR 7.02(6).)

7. PSD, Nonattainment Review or Case-by-case MACT. Any facility, regardless of any exemption established elsewhere in 310 CMR 7.00, where the construction, substantial reconstruction or alteration would cause a facility to be subject to Prevention of Significant Deterioration (40 CFR Part 52.21), Emissions Offsets and Non-attainment Review (310 CMR 7.00: Appendix A), or Case-by-case MACT (40 CFR Part 63.40 through 40 CFR Part 63.44).

Modification of Plan Approval Conditions. Any facility, regardless of any 8. exemption established elsewhere in 310 CMR 7.00, that requires a modification to a condition of any plan approval issued by the Department due to an increase in potential emissions equal to or greater than ten tons per year (calculated over any consecutive 12month time period), over the emission limitation established by plan approval. The increase in potential emissions shall be calculated in accordance with 310 CMR 7.02(5)(b).

9. Modification of a PSD Permit, a Non-attainment Review Plan Approval or a Caseby-case MACT. Any facility, where the construction, substantial reconstruction or alteration would violate a condition of a PSD permit, a Non-attainment Review approval (310 CMR 7.00: Appendix A) or a Case-by-case MACT (40 CFR Part 63.40 through 40 CFR Part 63.44) regardless of the expected change in emissions and any exemptions established elsewhere in 310 CMR 7.00; such a facility may require a revision to the existing permit regardless of whether a CPA is required.

10. <u>Facilities with the Potential to Cause or Contribute to Air Pollution</u>. Any facility, regardless of any exemption established elsewhere in 310 CMR 7.00 that the Department determines has the potential for causing or contributing to a condition of air pollution. 11. <u>Major Modifications at Large Combustion Emission Units (LCEU)</u>. A Comprehensive Plan Application is required for major modifications for any large combustion emission unit. The applicability criteria for a CPA and associated definitions for LCEU(s) are set forth in 310 CMR 7.54.

(b) <u>Calculation of Emissions</u>. Calculation of potential emissions associated with a CPA must be based on the potential emissions (as defined in 310 CMR 7.00) of the proposed construction, substantial reconstruction or alteration. Limitations proposed on the potential emissions in the application must be made enforceable, as a practical matter, to be federally enforceable (*see* definition of federal potential to emit). Reductions in emissions resulting from reduced utilization or elimination of emission units cannot be deducted (*i.e.*, no netting). Products of combustion are not included when calculating applicability under 310 CMR 7.02(5)(a)1. Emissions from an emission unit(s) installed in accordance with 310 CMR 7.03 or 7.26 are not included when calculating an increase in potential emissions for purposes of determining applicability under 310 CMR 7.02(5)(a)1. through 3.

(c) <u>Comprehensive Plan Application Requirements</u>. To apply for a CPA, an applicant shall satisfy each of the following conditions:

1. The application shall be made on a form furnished by the Department or by other means required by the Department.

2. The application shall be signed by a responsible official.

3. The application shall be submitted in duplicate.

4. The application shall be accompanied by a description of the proposed activity, site information, plans, specifications, drawings illustrating the design of the facility, calculations detailing the nature and amount of all emissions, and procedures describing the manner in which the facility will operate and be maintained.

5. The application shall demonstrate compliance with the requirements of 310 CMR 7.02(8)(a) relating to compliance with emission limitations.

6. Additional information shall be furnished upon request by the Department including, but not limited to, air dispersion modeling, additional plans or specifications, and documentation or evidence to support the application.

7. The application shall bear the seal and signature of a professional engineer registered in the Commonwealth of Massachusetts under the provisions of M.G.L. c. 112.

8. The application shall contain an affirmative demonstration that any facility(ies) in Massachusetts owned or operated by such persons (or by an entity controlling, controlled by or under common control with such person) that is subject to 310 CMR 7.00, is in compliance with or on a Department approved compliance schedule to meet all provisions of 310 CMR 7.00, and any plan approval, notice of noncompliance order or plan approval issued thereunder.

(d) <u>Prevention of Significant Deterioration</u>. In addition to the requirements contained at 310 CMR 7.02(5)(c), new major stationary sources of air contaminants and major modifications of existing major stationary sources (as those terms are defined in 40 CFR 52.21) located in attainment areas are subject to Prevention of Significant Deterioration (PSD) regulations promulgated in 40 CFR Part 52.21.

(e) <u>Case-by-case Maximum Achievable Control Technology</u>. In addition to the requirements contained at 310 CMR 7.02(5)(c), the construction or reconstruction of major sources of hazardous air pollutants (as defined by 40 CFR Part 63.41) is subject to 40 CFR Part 63.40 through 63.44. This is a requirement to satisfy The Clean Air Act, § 112(g) that construction or reconstruction after June 29, 1998 of a major source of hazardous air pollutants (as defined in 40 CFR Part 63.2) be equipped with MACT. These requirements apply only if the source has not been either regulated or exempted by a standard issued pursuant to The Clean Air Act, § 112(d), 112(h), or 112(j) or the process category has been delisted pursuant to The Clean Air Act, § 112(c)(9). 40 CFR Part 63.40 through 63.44 is implemented by the Department as of August 3, 2001.

(6) <u>Aggregated Emissions</u>.

(a) <u>Applicability</u>.

1. Any person who owns or operates a facility shall track emission increases as defined in 310 CMR 7.02(6)(a)2. over any consecutive 12-month time period which includes a particular emission increase in order to determine if plan approval is required pursuant to 310 CMR 7.02(5)(a)6.

2. Emission increases that are subject to this requirement are those associated with the construction, substantial reconstruction or alteration of a facility or emission units that:

a. Are individually not subject to plan approval under 310 CMR 7.02(4) or (5); andb. Have not previously been aggregated for purposes of plan approval under

310 CMR 7.02(4) and (5); and

c. Are not part of a program of construction or modification in planned incremental phases previously approved by the Department.

(b) <u>Calculation of Emissions</u>. Aggregated emissions shall be calculated as the sum of the potential emissions of any air contaminant identified in 310 CMR 7.02(6)(a). Products of combustion from any fuel utilization facility or emissions resulting from construction, substantial reconstruction or alteration, in accordance with the requirements of 310 CMR 7.03 or 7.26, are not included in this calculation.

(7) <u>Mitigation of Air Pollution</u>.

(a) <u>Requirement to Collect Information</u>. When the Department determines that any facility or product manufactured therein has the likelihood of causing or contributing to a condition of air pollution, the Department may require the person owning, leasing or controlling said facility to submit information to document facility emissions, operating parameters of emission control equipment, and standard operating and maintenance procedures. In doing so, the Department may require any person who owns, operates or controls any facility, or who manufactures emissions control equipment or process equipment to:

- 1. Establish and maintain records;
- 2. Make reports;
- 3. Install, use, and maintain monitoring equipment;
- 4. Perform audits on monitoring equipment using standard procedures and methods;

5. Quantify emissions in accordance with the procedures, and methods as the Department may prescribe;

6. Keep records on control equipment parameters, production variables, and other indirect data when direct monitoring of emissions is not practical;

7. Conduct stack testing or submit modeling analysis; or

8. Maintain other records and provide any other information as the Department might reasonably require.

(b) <u>Department Review of Information</u>. The Department will use information submitted pursuant to 310 CMR 7.02(7)(a) to determine the adequacy and application of existing air pollution control technology at a facility to prevent a condition of air pollution. In addition, the Department's representative, upon presentation of credentials:

1. Shall have right of entry to, upon, or through any premises of any such person in which records required by 310 CMR 7.02(7)(a) are located, and

2. May at reasonable times have access to copy any records, inspect any equipment, review any documents, and sample any emissions that the owner or operator of the facility is required to sample under 310 CMR 7.02(7)(a).

(c) <u>Compliance Monitoring and Compliance Certification</u>. The Department may require any person to perform compliance monitoring and submit a compliance certificate subject to the standards of 310 CMR 7.01(2). Compliance certifications shall include:

1. Identification of all applicable requirements that are the basis for certification;

2. The method used to determine compliance status of the facility;

- 3. The compliance status of the facility, and each emission unit;
- 4. Whether compliance is continuous or intermittent; and

5. Other facts as the Department might require.

(d) <u>Plan Approval and Compliance Schedule Requirement</u>. If, after review of the submitted information, the Department determines that the facility is in need of reconstruction, alteration or repair to prevent the facility from causing or contributing to a condition of air pollution, the Department may require the person owning, leasing, operating or controlling the facility to submit an application for a CPA under 310 CMR 7.02(5). The plan application required by this section shall be provided to the Department by the deadline specified by the Department and shall contain a proposed compliance schedule subject to Department approval.

(e) <u>Continuing Operations</u>. The Department may allow the facility to temporarily continue to operate pending reconstruction or repair provided that the person owning, leasing, operating or controlling the facility complies with all requirements and deadlines of 310 CMR 7.02(7)(d).

(8) <u>Emission Limitations</u>.

(a) <u>Emission Limitations in Plan Approvals</u>. The Department's written approval of an LPA or CPA shall include the most stringent emission limitation of the following, as applicable:

1. Lowest Achievable Emission Rate (LAER) where the construction, substantial reconstruction or alteration is subject to the requirements of Emission Offsets and Non-attainment Review in 310 CMR 7.00: *Appendix A*.

2. Best Available Control Technology (BACT). BACT is required of all LPA approvals and CPA approvals. In no case will BACT be less stringent than any applicable emissions limitation contained in a Department regulation (*e.g.*, 310 CMR 7.05, 7.18, 7.19, 7.24, 7.26 or 7.29) or federal regulation (*e.g.*, 40 CFR 60, 61 or 63). BACT may include a design feature, equipment specification, work practice, operating standard or combination thereof. (*See* Definition of BACT in 310 CMR 7.00.) Applicants shall identify BACT for their specific application using a top-down BACT analysis. Refer to Department guidance for conducting a top-down BACT analysis. In *lieu* of an emission unit-specific top-down BACT analysis, an applicant may propose an emission control limitation by using one or more of the following approaches:

a. Propose a level of control from the most recent plan approval or other action issued by the Department (Top Case BACT).

b. Propose a level of control based on a combination of best management practices, pollution prevention, and a limitation on the hours of operation and/or raw material usage that minimizes emissions to the extent feasible. This approach is only available if the proposed allowable emissions, calculated over any consecutive 12-month time period, are:

i. Less than 18 tons VOC and HOC combined;

ii. Less than 18 tons of total organic material HAP; and

iii. Less than ten tons of a single organic material HAP.

c. Notwithstanding 310 CMR 7.02(8)(a)2.a. and b., the Department may consider any other information in determining BACT for any given plan application and approval.

3. New Source Performance Standards (NSPS) as defined in 40 CFR Part 60.

4. National Emission Standards for Hazardous Air Pollutants (NESHAP) as defined at 40 CFR Part 61.

5. National Emission Standards for Hazardous Air Pollutants for Source Categories as defined at 40 CFR Part 63.

6. Case-by-case MACT as determined under 310 CMR 7.02(5)(e).

7. Plan Approvals under 310 CMR 7.02(5)(a)10 or 7.02(7). Any emission limitation required in such plan approval shall be sufficient to eliminate the potential to cause a condition of air pollution, even if said emission limitation is more stringent than an emission limitation that would otherwise be determined to be BACT.

8. Plan Approvals under 310 CMR 7.26(45) shall use credits calculated by 310 CMR 7.26(45)(b)4. to subtract from the actual emissions in determining compliance with the emission limits established under 310 CMR 7.26(43)(b).

(b) <u>Fuel Switching</u>. Applicants for conversion of fuel utilization facilities equal to or greater than 100,000,000 Btu per hour from oil or solid fuel to natural gas or dual-fuel oil/natural gas, are not required to provide an assessment of BACT in the application for plan approval (LPA or CPA). Further, this action is not considered a major modification subject to 310 CMR 7.00: *Appendix A* provided that the project qualifies as a pollution control project. For the purpose of 310 CMR 7.02(8), a fuel utilization facility is defined as any single boiler, hot oil generator, melt furnace, oven, or similar fuel burning unit as determined by the Department.

(c) <u>Emission Limitations for Existing Facilities</u>. Existing facilities must comply with the applicable requirements of 310 CMR 7.02(8)(d) through (g) unless subject to more stringent requirements that have been established by plan approval, state regulation or federal requirement (NSPS or NESHAP) as applicable. Under 310 CMR 7.02(8)(c) through (g), an existing facility is any facility or emission unit that was in operation on or before June 1, 1972 and has not been constructed, substantially reconstructed or altered since that date. (*See* also Definition of Existing Facility in 310 CMR 7.00.) Stationary combustion turbines and stationary reciprocating engines are not subject to the emission limits in 310 CMR 7.02: *Tables 4, 5* and 6.

(d) <u>Maximum Particulate Emission Limits in Areas of Critical Concern</u>. Existing facilities in the communities listed in 310 CMR 7.02: *Table 3* shall, at a minimum, meet the particulate emission limits in Table 4 unless subject to a more stringent emission limit in a plan approval, state regulation or federal program (*e.g.*, NSPS or NESHAP), as applicable. Stationary combustion turbines and stationary reciprocating engines are not subject to the emission limits in 310 CMR 7.02: *Table 4, 5* and *6*.

Table 3

Adams	Fall River	Millbury	Southbridge
Amherst	Fitchburg	Milton	Springfield
Arlington	Gardner	Needham	Stoneham
Athol	Grafton	New Bedford	Taunton
Attleboro	Greenfield	Newburyport	Wakefield
Auburn	Hadley	Newton	Waltham
Belmont	Haverhill	North Adams	Ware
Boston	Holden	Northampton	Watertown
Boylston	Holyoke	Orange	Webster
Braintree	Lawrence	Palmer	West Boylston
Brookline	Lee	Peabody	Westfield
Cambridge	Leicester	Pittsfield	West Springfield
Canton	Leominster	Quincy	Weymouth
Chelsea	Longmeadow	Revere	Winchester
Chicopee	Lowell	Salem	Winthrop
Dalton	Ludlow	Sandwich	Woburn
Dedham	Lynn	Saugus	Worcester
Easthampton	Malden	Shrewsbury	
East Longmeadow	Medford	Somerset	
Everett	Melrose	Somerville	

	Table 4	
Facility Type	Size	Existing unit
Ferrous Cupola Foundries Production Jobbing Non-ferrous Cupola Foundries	all all all	0.06 grains/DSCF ¹ 0.21 grains/DSCF 0.06 grains/DSCF
Municipal, Commercial, Industrial, and Institutional Incinerators	all	0.1 grains/scf at 12% CO2 ²
Municipal Sewerage Sludge Incinerators	all	0.65 gr./kg dry sludge input
Asphalt Batching plants	all	0.04 gr./DSCF
Fossil Fuel Utilization Facility	3 - 250 MMBtu ³ 250 MMBtu or larger	0.12 lb./MMBtu 0.12 lb./MMBtu
Fuel Utilization Facilities Solid Fuel Residual Oil Distillate oil Natural gas	<i>City of Worcester only</i> 3 MMBtu or larger 3 MMBtu or larger 3 MMBtu or larger 3 MMBtu or larger	0.12 lb./MMBtu 0.12 lb./MMBtu 0.10 lb./MMBtu 0.10 lb./MMBtu

(e) <u>Maximum Particulate Emission Rate: All Other Communities</u>. In communities other than those listed in 310 CMR 7.02: *Table 3*, existing facilities shall, at minimum, meet the particulate emission limits in 310 CMR 7.02: *Table 5* unless subject to more stringent emission limits as applicable in a plan approval, state regulation or federal program (NSPS or NESHAP). Stationary combustion turbines and stationary reciprocating engines are not subject to the emission limits in 310 CMR 7.02: *Table 4, 5* and *6*.

Table 5

<u>Facility Type</u>	<u>Size</u>	Existing unit
Fossil Fuel Utilization Facility	3 - 250 MMBtu	0.15 lb./MMBtu
Ferrous Cupola Foundries	250 MMBtu or larger	0.15 lb./MMBtu
Production	all	0.13 gr./DSCF
Jobbing	all	0.21 gr./DSCF
Non-ferrous Cupola Foundries	all	0.08 gr./DSCF
Municipal, Industrial, Commercial, and Institutional Incinerators	all	0.1 gr./scf at 12% CO2
Municipal Sewerage Sludge Incinerators Asphalt Batching Plants	all all	0.65 gr./kg dry sludge input 0.06 gr./DSCF

(f) Any facility which, when constructed, was subject to a federal New Source Performance Standard or National Emission Standard for Hazardous Air Pollutants, shall continue to be subject to such standard and operate in compliance with such standard unless more stringent requirements are applied through plan approval.

¹ DSCF - Dry Standard Cubic Foot

² CO2 - Carbon Dioxide

³ MMBtu - Million British Thermal Units

Emission Testing and Monitoring. For purposes of determining compliance with (g) 310 CMR 7.02(8)(d) through (f) and (h), any emission testing for compliance with these limitations shall be conducted under isokinetic sampling conditions and in accordance with EPA test methods, as appropriate including, but not limited to, Test Methods 1 through 5 as specified in 40 CFR Part 60, Appendix A: Standards of Performance for New Stationary Sources, 40 CFR Part 60 Subpart E: Standards of Performance for Incinerators, (originally promulgated in the Federal Register, Volume 36, No. 247, December 23, 1971) or 40 CFR Part 60 Subpart O: Standards of Performance for Sewerage Treatment Plants (originally promulgated in the Federal Register, Volume 39, No. 2, March 8, 1974) or by another method which has been correlated to the above method to the satisfaction of the Department. (h) Particulate Emission Limitations for New Wood and Fossil Fuel Utilization Facilities. New facilities shall, at a minimum, comply with the particulate emission limits in 310 CMR 7.02: Table 6 unless subject to more stringent emission limits as applicable in a plan approval, state regulation or federal program (NSPS or NESHAP). Stationary combustion turbines and stationary reciprocating engines are not subject to the emission limits in 310 CMR 7.02: Table 4, 5 and 6.

Table 6

<u>Facility Size</u> Million Btu/hr. Input	Emission Limitation lbs.(particulate)/million Btu	
$\frac{Wood}{3-25}$ greater than 25	<u>New</u> 0.20 0.10	New (Critical Area – Table 3) 0.10 0.10
Fossil Fuel 3-250 greater than 250	0.10 0.05	

(i) <u>U Emergency or Standby Engine(s)</u>.

1. <u>Applicability</u>.

a. On and after March 23, 2006, the construction, substantial reconstruction, or alteration of any emergency or standby engine greater than or equal to 37kW shall comply with the requirements of 310 CMR 7.26(40) through (42), Engines and Combustion Turbines,

b. Persons owning, operating or controlling an emergency or standby engine constructed, substantially reconstructed, or altered prior to June 1, 1990, having an energy input capacity equal or greater than 3,000,000 Btu per hour shall operate said engine in compliance with 310 CMR 7.02(8)(i)2. through 5.; or may apply for alternative operating and reporting requirements under 310 CMR 7.02(5)(a)3.

- 2. Limits of Operation.
 - a. Each engine shall be operated only:

i. for up to 100 hours per calendar year, or as otherwise approved by EPA, for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine; ii. as part of the 100 hours, for up to 50 hours per calendar year for non-emergency situations; and

iii. during periods of electric power outage due to failure of the electrical supply, in whole or in part, onsite disaster, local equipment failure, flood, fire or natural disaster, or when the imminent threat of a power outage is likely due to failure of the electrical supply.

b. Additional limitations and conditions may apply including, but not limited to, 40 CFR Part 63, Subpart ZZZZ; 40 CFR Part 60, Subpart JJJJ; and 40 CFR Part 60, Subpart IIII.

3. <u>Record Keeping</u>. The owner/operator shall maintain on site or, for remote locations, at the closest facility where records can be maintained, the following records for each engine:

a. Information on equipment type, make and model, and maximum power input/output; and

b. A log of operations, including date, time and duration of operation and reason for each start, fuel type and supplier; and

c. Purchase orders, invoices, and other documents to support information in the log.
d. A log of conditions under which the engine operated pursuant to 310 CMR 7.02(8)(i)2.

4. <u>Availability of Records</u>. Logs and records established under 310 CMR 7.02(8)(i)3. shall be made available to the Department or its designee upon request. The owner/operator shall certify that the log is accurate and true in accordance with 310 CMR 7.01(2)(c).

5. <u>Fuel Requirements</u>. No person shall accept for delivery for burning in any engine subject to 310 CMR 7.02(8)(i), diesel or any other fuel that does not meet the sulfur content limit for fuel in 310 CMR 7.05.

(9) <u>Restricted Emission Status (RES)</u>.

(a) <u>General</u>. Any person who owns, leases, operates or controls a facility may apply to the Department for a restricted emission status in order to:

1. restrict potential emissions of regulated air contaminants to eliminate applicability of an otherwise applicable requirement including, but not limited to, restricting potential emissions to allow redesignation for purposes of annual compliance fee assessment (310 CMR 4.03: *Annual Compliance Assurance Fee*); or

2. restrict potential emissions below the Reasonably Available Control Technology (RACT) applicability thresholds for halogenated organic compounds (HOC) (310 CMR 7.18); or,

3. restrict federal potential emissions below the Reasonably Available Control Technology (RACT) applicability thresholds for volatile organic compounds (310 CMR 7.18) and 310 CMR 7.00: *Appendix C* where applicable; or,

4. restrict federal potential emissions below the Reasonably Available Control Technology (RACT) applicability thresholds for oxides of nitrogen (NO_x) (310 CMR 7.19) and 310 CMR 7.00: *Appendix C* where applicable; or,

5. restrict federal potential emissions of regulated pollutants for eliminating applicability to an otherwise applicable requirement including, but not limited to, 310 CMR 7.00: *Appendix C*.

(b) <u>Application Requirements</u>. Any person who owns, leases, operates or controls a facility may apply for a restricted emission status as follows:

1. The application shall be made on form(s) obtained from the Department or by other means prescribed by the Department.

2. The application shall be submitted in duplicate and signed by a responsible official.

3. The application shall be accompanied by sufficient information to document the proposed restriction.

4. Applications for restricted emission status to lower potential emissions below the Reasonably Available Control Technology (RACT) applicability thresholds for volatile organic compounds (VOC) or oxides of Nitrogen (NO_x) stated in 310 CMR 7.18 and 7.19, shall include the following information:

a. the actual amount of VOC, HOC and/or NO_x (as required) emitted from each affected emitting equipment for the highest emitting calendar year beginning January 1, 1990.

b. a description of the design and operation of the affected VOC, HOC and/or NO_x emitting equipment, and

c. any other information deemed by the Department to be required to establish enforceable conditions to be contained in the permit restriction.

(c) <u>Relationship to RACT</u>. Restricted emission status to avoid RACT requirements at either 310 CMR 7.18 or 7.19 will only be available if actual emissions from the facility have not exceeded a threshold contained in 310 CMR 7.18 or 7.19 on or after January 1, 1990. If the facility was subject to the RACT requirements of a section of 310 CMR 7.18 before 1990, it will continue to be subject to these requirements.

(d) <u>Form of Approval</u>. Any restricted emission status the Department issues will be in writing.

(e) <u>Conditions of Approval</u>. Restricted emission status issued by the Department shall include:

1. some combination of production and/or operational limitations to ensure that emissions are limited by quantifiable and enforceable means. Operational limitations may include control equipment; and

2. requirements to maintain records sufficient to demonstrate that the limitations in the permit are followed and that emissions have not exceeded those allowed by the restriction.

(f) <u>Federal Enforceability</u>. Restricted emission status issued pursuant to 310 CMR 7.02(9)

for the purpose of restricting federal potential emissions must be federally enforceable.

1. Federally enforceable permit restrictions shall contain per unit emission factors, production and/or operational limitations and controls, and monitoring, recordkeeping, and reporting requirements capable of assuring compliance with such limitations and controls.

2. All emissions limitations, controls, and other requirements imposed by such restricted emission status must be at least as stringent as all other applicable limitations and requirements contained in the Massachusetts SIP, enforceable under the Massachusetts SIP, or otherwise federally enforceable. All limitations, controls and other requirements imposed by such restricted emissions status must be permanent, quantifiable, and otherwise enforceable as a practical matter.

3. Federally enforceable restricted emission status shall go through the public review process at 310 CMR 7.02(9)(g).

(g) <u>Notification and Public Comment</u>. The following public review process shall apply to all proposed restricted emission status (RES) if they are to be federally enforceable.

1. After notification of receipt of a technically complete application the Department shall issue either a disapproval of the application and notify the applicant and EPA of said disapproval; or, issue a proposal that the application be approved or approved with conditions.

2. If the Department proposes to approve the application or approve the application with conditions, it shall:

a. Provide a 30-day period for submittal of public comment;

b. Post on a public website identified by the Department (which may be the Department's own website), for the duration of the public comment period, the following:

i. Notice of availability of the Department's proposed decision to approve or deny the application and information on how to submit public comment;

ii. The Department's proposed decision to approve or deny the application;

iii. Information on how to access the administrative record for the Department's proposed decision to approve or deny the application; and

iv. Send a copy of the notice required under 310 CMR 7.02(9)(g)2.b.i. to EPA. c. Send a copy of the notice of public comment to the applicant, the EPA, and officials and agencies having jurisdiction over the community in which the facility is located, including local air pollution control agencies, chief executives of said community, and any regional land use planning agency.

d. Make a final determination whether the restricted emission status application should be approved or approved with conditions.

e. Notify the applicant and EPA in writing of the final determination and send a copy of the final restricted emission status (RES) approval or approval with conditions.

(h) <u>Return to Major Status</u>. If construction, substantial reconstruction or alteration of a facility operating under Restricted Emission Status (RES), results in the increase in emissions at the facility so that the facility can no longer stay below major source threshold(s), then the owner or operator must comply with previously applicable requirement(s) including, but not limited to, obtaining an operating permit.

(10) Modification of a Restricted Emission Status (RES).

(a) <u>General</u>. Any person who owns, leases, operates or controls a facility may apply to modify a RES for the purpose of increasing the facility-wide emission limit, amending the list of emission units included in the existing RES approval or adding emission units not included in the RES approval or to make administrative changes.

(b) <u>Increase RES Cap</u>. If it is proposed to modify a RES to increase the approved RES emission limits without construction, substantial reconstruction or alteration of emission units that require approval under 310 CMR 7.02(4) or (5), an application shall be made in accordance with the procedures in 310 CMR 7.02(9).

(c) <u>Increase RES Cap with Construction</u>. If it is proposed to construct, substantially reconstruct or alter a facility in a manner that requires plan approval, and which increases the facility wide emission limit, and the facility has a RES, then:

1. The following procedure will be used to modify the RES:

a. The proposed construction, substantial reconstruction or alteration shall be submitted for Department approval pursuant to 310 CMR 7.02(5)- Comprehensive Plan Application;

b. The emission limitations in the existing RES shall be modified to incorporate the new emissions approved through plan approval without additional application to the Department; and

c. The plan approval, and revised emission limitations established in the RES, shall be subject to public notice provisions of 310 CMR 7.02(9)(g).

2. Notwithstanding 310 CMR 7.02(10)(c)1., if the facility seeks to construct an emission unit not listed in the RES, the facility may elect to submit the appropriate limited or comprehensive plan application without modification to the RES. In this case, the potential to emit approved under the LPA or CPA will become additive to the potential of the emission units listed in the RES. It is the responsibility of the facility to ensure that the combined potential to emit will not exceed relevant regulatory thresholds.

(d) <u>Construction with No Increase in RES Cap</u>. If it is proposed to modify a RES approval to construct, substantially reconstruct or alter a facility, amend terms or conditions of the RES approval, and the construction, substantial reconstruction or alteration will not increase the facility-wide emission limit, the applicant shall:

1. File an application with the Department at least 30 days prior to the change at the facility that requires modification of the RES approval;

2. Provide a complete description of the proposed changes on forms obtained from the Department or by other means required by the Department;

3. Submit the application in duplicate, signed by a responsible official as being accurate and complete;

4. Provide in the application documentation of the equipment or procedure that will be used to ensure that short and long term emissions shall not exceed the limits in the RES approval including but not limited to, emission monitoring, and daily or monthly recordkeeping;

5. Provide a determination of BACT for those emission units not exempt from plan approval; and

6. Provide in the application a demonstration that the proposed construction, substantial reconstruction, or alteration is not subject to Nonattainment New Source Review (310 CMR 7.00: *Appendix A*) or MACT (40 CFR 63).

(e) <u>Procedures for 310 CMR 7.02(10(d)</u>. For applications made pursuant to 310 CMR 7.02(10)(d), construction, substantial reconstruction or alteration may commence 30 days after receipt of the application for a modified RES under 310 CMR 7.02(10)(d) by the Department, unless the applicant is notified by the Department that other permits may be necessary. Operation of the newly constructed, substantially reconstructed or altered emission unit shall not occur until the public review process procedures of 310 CMR 7.02(9)(g) are complete at which time the modification will satisfy plan approval requirements of 310 CMR 7.02 (3), (4), and (5).

(f) <u>Return to Major Source Status</u>. If construction, substantial reconstruction or alteration of a facility operating under a RES approval results in an increase in emissions at the facility so that the facility can no longer stay below major source threshold(s), then the owner or operator of the facility must comply with the requirements of 310 CMR 7.00 applicable to major sources including, but not limited to, the implementation of RACT (310 CMR 7.18 and 310 CMR 7.19) and the requirement to obtain an operating permit (310 CMR 7.00: *Appendix C*).

- (11) <u>U 50% or 25% Facility Emission Cap Notification</u>.
 - (a) <u>General</u>.

1. 310 CMR 7.02(11) is an alternative means for an owner or operator to establish an emission cap on a facility's federal potential to emit. An owner or operator complying with 310 CMR 7.02(11) will no longer be subject to the restrictions established in the facility's RES granted pursuant to 310 CMR 7.02(9), or the requirements pursuant to 310 CMR 7.00: *Appendix C* after the Department has returned to the owner or operator a copy of the processed notification form.

2. Failure to comply with the emission cap set forth at 310 CMR 7.02(11)(e) or (f) means that an owner or operator is subject to all previously applicable requirements, including but not limited to, 42 U.S.C. 7401, § 112 (Title III), § 501 (Title V) and 40 CFR 52.21, or 310 CMR 7.18 (only where applicability is determined by the facility's potential to emit), 310 CMR 7.19, 310 CMR 7.00: *Appendix A* and/or 310 CMR 7.00: *Appendix C*.

3. Applicability of § 112 (Title III) may be avoided pursuant to 310 CMR 7.02(11) only where the owner or operator complies with 310 CMR 7.02(11) prior to the first substantive requirement of the applicable MACT standard. The first compliance date is defined as the date an owner or operator must comply with an emission limitation or other substantive regulatory requirement.

(b) <u>Duty to Comply</u>. Operation under 310 CMR 7.02(11) does not relax or eliminate any emission limitation(s), or recordkeeping requirement(s) established by regulation or previously issued source specific plan approval(s) or emission control plan(s). Annual emission limitations established by regulation or source specific plan approval or emission control plan, may not be less stringent than the emission limitations established at 310 CMR 7.02(11)(e) and (f).

(c) <u>Plan Approval</u>. Notwithstanding 310 CMR 7.02(11)(a), an owner or operator is subject to preconstruction plan approval pursuant to 310 CMR 7.02(1) for future construction, substantial reconstruction or alteration at the facility.

(d) <u>Application Requirements</u>. An owner or operator electing to comply with 310 CMR 7.02(11) shall notify the Department on forms provided by the Department, of his/her intentions to operate under one of the emission caps established at 310 CMR 7.02(11)(e) or (f), and that the facility's actual emissions in the prior calendar year were equal to or less than the emission cap. This facility wide emission cap shall remain in effect until the owner or operator notifies the Department.

(e) <u>50% Cap Requirements</u>. For owners or operators electing 50% emission cap, in every 12-month period (rolling 12-month), the potential and actual emissions of the facility shall be less than or equal to the following limitations:

1. 25 tons per year of VOC or NO_x , or 50 tons per year of any other regulated air pollutant;

- 2. 5 tons per year of a single HAP;
- 3. 12.5 tons per year of any combination of HAPs; and

4. 50% of any lesser threshold for a single HAP that the EPA may establish by rule.

(f) <u>25% Cap Requirements</u>. For owners or operators electing 25% emission cap, in every 12-month period (rolling 12-month), the potential and actual emissions of the facility shall be less than or equal to the following limitations:

1. 15 tons per year of VOC or NO_x , or 25 tons per year of any other regulated air pollutant;

- 2. 2.5 tons per year of a single HAP;
- 3. 6.25 tons per year of any combination of HAPs, and
- 4. 25% of any lesser threshold for a single HAP that the EPA may establish by rule.

(g) <u>Eligible Restrictions</u>. The owner or operator may take into account the operation of air pollution control equipment when calculating the facility's potential emissions, if the equipment is required by Federal or State regulations, or operated in accordance with 310 CMR 7.02(1) or 7.03, or an emission control plan issued pursuant to 310 CMR 7.18 or 310 CMR 7.19.

(h) <u>Record Keeping</u>. The owner or operator electing to operate under one of the emission caps established at 310 CMR 7.02(11)(e) or (f), shall establish and maintain records of actual emissions. Such information shall be summarized in a monthly log, maintained on site for five years, be made available to the Department or EPA staff upon request, and contain the following items where applicable:

1. Coating or Solvent Usage.

a. A list of process related coatings, solvents, inks and adhesives in use. This list shall include: information on the VOC and HAPs content in lbs per gallon as applied;
b. A description of production equipment including type, make and model; maximum design process rate or throughput; control device(s) type and description (if any); and a description of the coating/solvent application/drying method(s) employed;

c. A monthly log of the gallons consumed of each production solvent (including solvents used in clean-up and surface preparation), coating, ink and adhesive used; d. All purchase orders, invoices, and other documents to support information in the monthly log; and

e. The emissions of VOC from any coating used in small amounts are exempt from the emission limitations provided the amount of all coatings exempted does not exceed 55 gallons on a rolling 12 month period. A list of coatings used in small amounts shall be established and records of the consumption of these coatings shall be maintained.

2. Organic Liquid Storage.

a. A monthly log identifying the liquid stored and monthly throughput;

b. Information on the tank design and specifications including control equipment; and

c. The emissions of VOC from any coating used in small amounts are exempt from the emission limitations provided the amount of all coatings exempted does not exceed 55 gallons on a rolling 12 month period. A list of coatings used in small amounts shall be established and records of the consumption of these coatings shall be maintained.

3. <u>Fuel Utilization Facility</u>.

a. Information on equipment type, make and model, maximum power input/output, minimum operating temperature and capacity, control equipment and all source test information;

b. A monthly log of hours of operation, fuel type, fuel usage in gallons or tons as appropriate, fuel heating value, percent sulfur for fuel oil and coal; and

c. All purchase orders, invoices, and other documents to support information in the monthly log.

4. Air Pollution Control Equipment.

a. Information on equipment type and description, make and model, and emission units served by the control unit;

b. Information on equipment design including where applicable: pollutants(s) controlled; control effectiveness; maximum design or rated capacity; inlet and outlet temperatures, and concentrations for each pollutant controlled; catalyst data (type, material, life, volume, space velocity, ammonia injection rate and temperature); baghouse data (design, cleaning method, fabric material, flow rate, air/cloth ratio); electrostatic precipitator data (number of fields, cleaning method, and power input); scrubber data (type, design, sorbent type, pressure drop); other design data as appropriate; all source test information; and

c. A monthly log of hours of operation including notation of any control equipment breakdowns, upsets, repairs, maintenance and any other deviations from design parameters.

5. Not Otherwise Classified Process.

a. Information on the process and equipment including the following: equipment type, description, make and model, maximum design process rate or throughput, control device(s) type and description (if any);

b. Any additional information requested in writing by the Department;

c. A monthly log of operating hours, each raw material used and its amount; and

d. Purchase orders, invoices, and other documents to support information in the monthly log.

(i) <u>Reporting</u>. In order to document compliance and maintain an emissions inventory, the Department may require reporting from any owner or operator of a facility with an emissions cap established at 310 CMR 7.02(11)(e) or (f).

(12) <u>U Consolidation of Applicable Requirements</u>.

(a) <u>General</u>. Any person who owns, leases, operates or controls a facility may apply to the Department to consolidate the facility's applicable requirements into a single plan approval to streamline the emission limitations, monitoring, emission testing, recordkeeping and reporting and other requirements as contained in the facility's plan approval(s), emission control plan(s) or other document(s) issued by the Department pursuant to any regulation under 310 CMR 7.00.

(b) 310 CMR 7.02(12) is only for use when the facility is not subject to the Department's operating permit and compliance program, 310 CMR 7.00: *Appendix C*. If the facility subsequently becomes subject to the operating permit and compliance program, the requirements of the consolidated plan approval will be incorporated into the facility's operating permit.

(c) When a consolidation application is made in conjunction with an application to construct, substantially reconstruct or alter the facility under 310 CMR 7.02(4) or (5), the decision concerning consolidation will be made under 310 CMR 7.02(12) following issuance of the plan approval.

(d) <u>Application Requirements</u>. An application to consolidate the applicable requirements shall, at a minimum:

1. Be made on form(s) obtained from the Department or by other means prescribed by the Department.

- 2. Be submitted in duplicate and signed by a responsible official.
- 3. Contain the following information for each emission unit in the application:
 - a. an emission-unit-by-emission-unit, side-by-side comparison of all requirements to which the emission unit is subject;

b. A determination of the most stringent emission limitations and/or performance standards and the documentation relied upon to make this determination;

c. A set of proposed terms and conditions which detail the most stringent emissions limitations and/or standards, appropriate monitoring and its associated recordkeeping and reporting, and such other proposed conditions as are necessary to assure compliance with all applicable requirements; and

d. A proposed schedule to implement any new monitoring/compliance approach relevant to a consolidated plan approval if the owner/operator of the facility requires additional time to implement the streamlined terms and conditions. The current record keeping, monitoring, and reporting requirements (applicable requirements) shall continue to apply until the new monitoring/compliance approach is operational.

(e) <u>Form of Approval</u>. Any consolidated plan approval issued by the Department shall be in writing.

(f) <u>Conditions of Approval</u>. A consolidated plan approval shall include:

1. A combination of production and/or operational limitations to ensure that emissions are limited by quantifiable and enforceable means.

2. Emissions limitations and control requirements that are at least as stringent as those imposed by the facility's applicable requirements.

3. A requirement to maintain records and conduct monitoring sufficient to demonstrate that emissions limitations and other applicable requirements are being achieved;

4. Reporting on a schedule as determined by the Department;

5. A list of previously issued plan approvals, emission control plans and other documents addressing the applicable requirements of the emission units covered by the consolidated plan approval; and

6. Other conditions as deemed necessary by the Department based on the applicable requirements.

(13) <u>U Administrative Amendment to Plan Approval</u>.

(a) An administrative amendment to a plan approval is required for the following:

1. A change in the business name, facility name, mailing address, telephone number or name of the facility contact; or

2. A change in the ownership of the facility that is subject to the plan approval; or

3. An increase in the frequency of recordkeeping, monitoring, reporting or testing above that previously specified in the plan approval; or

4. Where the Department or the owner/operator of the facility determines that a plan approval has typographical errors; or

5. Other changes the Department determines are necessary for the effective administration of the Commonwealth's air pollution control program.

(b) The Department or the owner/operator may propose an administrative amendment to a plan approval on Department forms or in a format provided by the Department.

1. If the Department determines a plan approval should be amended, the Department will provide the owner/operator with a draft amended plan approval for review.

2. If the owner/operator determines a plan approval should be amended, the owner/operator shall submit an application for an administrative amendment to the Department within 60 days of the change described in 310 CMR 7.02(13)(a).

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(c) The administrative amendment shall take effect 30 days after receipt by the owner/operator or the Department respectively, unless prior to the expiration of the 30 days:

1. The owner or operator contests the administrative amendment in writing, or

2. The Department disapproves the proposed amendment in writing.

(d) In addition to complying with 310 CMR 7.02(13)(a) and (b), the owner/operator of a facility for which a final operating permit has been issued in accordance with the provisions of 310 CMR 7.00: *Appendix C*, shall comply with the Administrative Amendment procedures contained in 310 CMR 7.00: *Appendix C*(8).

7.03: U Plan Approval Exemption: Construction Requirements

(1) General.

(a) Any person who constructs, substantially reconstructs or alters, and subsequently operates an emission unit listed in 310 CMR 7.03(1)(a), may comply with the specific requirements of 310 CMR 7.03(5) through (7) in *lieu* of filing either a Comprehensive Plan Application (CPA) required by 310 CMR 7.02(5)(a) or a Limited Plan Application (LPA) required by 310 CMR 7.02(4)(a), except as provided in 310 CMR 7.03(2).

(b) Under 310 CMR 7.03, VOC shall include Volatile Organic Compounds (VOC) and Halogenated Organic Compounds (HOC) as defined in 310 CMR 7.00.

(c) Nothing in 310 CMR 7.03 relieves a person who owns, operates, leases or controls a facility from having to comply with other applicable requirements of 310 CMR 7.00 including, but not limited to, applicable 310 CMR 7.18 and 7.19 Reasonably Available Control Technology (RACT) requirements that come into effect after a person constructs, substantially reconstructs or alters, or operates an emission unit under 310 CMR 7.03.

(d) 1. Any person who constructs, substantially reconstructs, or alters and subsequently operates an emission unit in accordance with 310 CMR 7.03(8), (15), (16) or (19) shall limit the facility-wide emission of any individual hazardous air pollutant (HAP) to less than ten tons in each consecutive 12-month time period, and all combined HAPs to less than 25 tons in each consecutive 12-month time period.

2. The limits specified in 310 CMR 7.03(1)(d)1. do not apply to an owner or operator subject to 310 CMR 7.00 *Appendix C: Operating Permit and Compliance Program.*

(2) <u>Prohibition</u>. 310 CMR 7.03 is not an alternative to obtaining a plan approval pursuant to 310 CMR 7.02 if construction, substantial reconstruction or alteration would violate requirements of:

(a) 310 CMR 7.02(5)(a)7. relating to Prevention of Significant Deterioration (PSD) requirements or the need for Non-attainment Review;

(b) 310 CMR 7.02(5)(a)8. and 9. relating to plan approvals, Nonattainment Review approval or PSD permits, or MACT requirements at 40 CFR 63.40 through 63.44;

(c) 310 CMR 7.02(5)(a)10. relating to Department determinations of a potential condition of air pollution;

(d) 310 CMR 7.02(5)(a)5. relating to any incinerator;

(e) 310 CMR 7.02(4)(a)3. relating to plan approvals; or

(f) 310 CMR 7.02(4)(a)4. relating to significant increase in federal potential emissions.

(3) <u>Including Emission Units in Calculation of Net Emission Increase</u>. Persons who construct, substantially reconstruct or alter an emission unit that complies with the requirements of 310 CMR 7.03 must include said emission unit in calculating significant net emission increase and determining applicability of Non-attainment New Source Review, 310 CMR 7.00: *Appendix A*, PSD (40 CFR 52.21) or Case-by-case MACT (310 CMR 7.02(5)(e)).

(4) Emission Units Constructed or Altered Since 1970.

(a) Persons who construct, substantially reconstruct, alter, or subsequently operate an emission unit after July 1, 1970 in the Metropolitan Boston Air Pollution Control District and after September 15, 1970 in all other districts are not required to obtain plan approval if said emission unit complies with the requirements of 310 CMR 7.03(5) through (7), and is not prohibited by 310 CMR 7.03(2).

(b) Persons who already have plan approval for emission units that might otherwise be subject to 310 CMR 7.03 must continue to comply with the terms and conditions of the plan approval and are not subject to the requirements of 310 CMR 7.03.

(5) <u>Reporting</u>. Any construction, substantial reconstruction or alteration, as described in 310 CMR 7.03, at a facility subject to the reporting requirements of 310 CMR 7.12, shall be reported to the Department on the next required source registration.

(6) <u>Record-keeping</u>. A record-keeping system shall be established and continued in sufficient detail to document the date of construction, substantial reconstruction or alteration and that the respective emission rates, operational limitations, equipment specifications and other requirements pursuant to 310 CMR 7.03 are met. All records shall be maintained up-to-date such that year-to-date information is readily available for Department examination.

(7) <u>Operation</u>. No person shall operate a facility constructed, substantially reconstructed or altered pursuant to 310 CMR 7.03 except in conformance with the requirements established herein. This exemption from the requirements of 310 CMR 7.02(4) and (5) shall not affect the responsibility of the owner or operator to comply with other provisions of 310 CMR 7.00, other applicable regulations or any plan approval, notice of noncompliance order, PSD permit or other approval issued to said facility.

(8) <u>Degreaser</u>. Construction, substantial reconstruction or alteration of any degreaser in compliance with the criteria established in 310 CMR 7.18(8), regardless of the item being degreased, with a solvent consumption rate of less than 100 gallons per month. Consumption rate is the amount of solvent added into the unit less any documented solvent waste disposal or recycling amounts, each in gallons per month.

(9) <u>Wave Solder</u>. Construction, substantial reconstruction or alteration of an oil-less wave solder operation or any wave solder operation with a flux consumption rate, including any thinner, of less than 200 gallons per month, either equipped with an electrostatic precipitator capable of maintaining a particulate control efficiency of greater than 90% or emitting visible emissions with 0% opacity.

(10) Emergency or Standby Engine.

(a) On or after June 1, 1990, but prior to March 23, 2006, construction, substantial reconstruction or alteration of any emergency or standby engine shall comply with 310 CMR 7.03(10)(a) through (c). All such emergency or standby engines shall:

1. Have an energy input capacity of equal to or greater than 3,000,000 Btu per hour and less than or equal to 10,000,000 Btu per hour; and

2. Be equipped with an exhaust gas silencer so that sound emissions from the generator will not cause or contribute to a condition of air pollution; and

3. Utilize an exhaust stack that discharges so as to not cause or contribute to a condition of air pollution; and

4. Operate only:

a. for up to 100 hours per calendar year, or as otherwise approved by EPA, for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine;

b. as part of the 100 hours, for up to 50 hours per calendar year for non-emergency situations; and

c. during periods of electric power outage due to failure of the electrical supply, in whole or in part, onsite disaster, local equipment failure, flood, fire or natural disaster, or when the imminent threat of a power outage is likely due to failure of the electrical supply.

Additional limitations and conditions may apply, including but not limited to, 40 CFR Part 63, Subpart ZZZZ; 40 CFR Part 60, Subpart IIII; and 40 CFR Part 60, Subpart JJJJ.

(b) No person shall accept for delivery for burning in any engine subject to 310 CMR 7.03(10), diesel or any other fuel that does not meet the sulfur content limit for fuel in 310 CMR 7.05.

(c) Reporting and record keeping requirements for 310 CMR 7.03(10), as required by 310 CMR 7.03(5) and (6), shall be in accordance with 310 CMR 7.02(8)(i)3. through 4.

(11) <u>Lead Melt Pots</u>. Construction, substantial reconstruction or alteration of any lead melt pot(s) equipped with fabric filter control capable of maintaining 99.5% control efficiency of particulate matter.

(12) <u>Dry Material Storage Silo</u>. Construction, substantial reconstruction or alteration of any storage silo equipped with fabric filter control capable of maintaining 99.5% control efficiency.

(13) <u>Motor Vehicle Fuel Dispensing Facility</u>. Construction, substantial reconstruction or alteration of a Stage I or Stage II system at a motor vehicle fuel dispensing facility, provided that such system meets the requirements of 310 CMR 7.24(3) and (6), and the Department is notified of said installation.

((14) Reserved))

(15) <u>Non-heatset Offset Lithographic Printing</u>. On or after July 1, 1992, construction, substantial reconstruction or alteration of any non-heatset offset lithographic printing press, except such presses present at a facility subject to 310 CMR 7.26(20), utilizing materials containing VOCs or organic material including, but not limited to, printing inks, overprint coatings, makeup solvents, fountain solution additives, adhesives, alcohol and cleanup solutions, complying with the applicable performance standards set forth in 310 CMR 7.03(15)(b) and (c) shall be subject to the requirements in either 310 CMR 7.03(15)(a)1. or 2. and in 310 CMR 7.03(15)(d) and (f), and to the recordkeeping requirements in 310 CMR 7.03(15)(e).

(a)1. The total facility, including the new or modified printing press, shall use less than 670 gallons per month of all materials containing VOCs, or alternatively, its emission rate shall be less than 2.5 tons of VOC per calendar month. This emission rate shall include emissions from all printing and non-printing operations at the facility including, but not limited to, non-heatset offset lithographic printing presses. The owner/operator is subject to the reporting requirements of 310 CMR 7.12.

2. The total facility, including the new or modified printing press, shall use less than 2,000 gallons per 12-month rolling period of all materials containing organic material (includes VOC), or, alternatively, shall emit less than ten tons of organic material (includes VOC), per 12-month rolling period. This emission rate shall include emissions from all printing and non-printing operations at the facility including, but not limited to, non-heatset offset lithographic printing presses. The owner/operator is not subject to the reporting requirements of 310 CMR 7.12 unless otherwise required.

(b) Non-heatset offset lithographic printing presses subject to 310 CMR 7.03(15) and employing a fountain solution containing VOC shall meet the following as applied specifications:

1. For web presses installed on or after May 1, 1998, the fountain solution shall not contain any alcohol.

2. For sheet-fed presses with cylinder widths greater than 21 inches installed on or after July 1, 1992:

a. The fountain solution shall be maintained at 3% by weight or less of alcohol; orb. The fountain solution shall be maintained at 5% by weight or less of alcohol and

the fountain solution refrigerated to a temperature of less than 60° F.

3. For sheet-fed presses with cylinder widths of less than or equal to 21 inches, installed on or after July 1, 1992, the fountain solution shall be maintained at 5% by weight or less of alcohol.

4. For newspaper printing, the fountain shall contain 0% alcohol.

5. Any VOC-containing fountain additive other than alcohol shall be limited to a mix ratio that will result in a VOC concentration in the fountain solution, excluding alcohol, equal to or less than 2.5% by weight.

- (c) Cleanup solution containing VOC shall meet the following criteria:
 - 1. Cleanup solution as used at the press shall either:
 - a. not exceed 70% by weight VOC; or
 - b. have a VOC composite partial pressure of 10 mmHg or less at 20°C (68°F).

2. Cleanup solution shall be kept in tightly covered containers during transport and storage; and

3. The used cleaning rags used in conjunction with the cleanup solution shall be placed, when not in use, in closed containers and collected for proper disposal or recycle.

(d) Adhesives shall meet a VOC content Limit of 300 grams VOC per liter of product as applied (2.5 pounds per gallon), less water.

(e) Any person subject to 310 CMR 7.03(15) shall maintain records sufficient to demonstrate compliance. Records kept to demonstrate compliance shall be kept on-site for five years and shall be made available to representatives of the Department upon request. Such records shall include, but are not limited to:

1. Identity, formulation (percent VOC by weight as determined by the manufacturer's formulation data or EPA Method 24 or 24A test), and quantity (gallons per calendar month) for each VOC-containing compound used at the facility including, but not limited to:

a. Alcohol;

- b. Makeup solvent;
- c. Fountain additives, including fountain solution alcohol substitute;
- d. Fountain solution concentrate;
- e. Printing Ink;
- f. Cleanup solution;
- g. Adhesives; and
- h. Overprint coatings.

2. The percent by weight of alcohol in the fountain solution as determined each time alcohol or alcohol mix is added to the system;

3. The weight percent of VOC-containing fountain additives other than alcohol in the fountain solution;

4. For fountain solutions subject to refrigeration requirements of 310 CMR 7.03(15)(b), the temperature of the fountain solution, as recorded on a once per shift basis; and

5. Total VOC emissions (tons per calendar month) for all printing presses combined at the facility, as described in 310 CMR 7.03(15)(a).

(f) Any person who complies with 310 CMR 7.03(15) in *lieu* of obtaining a plan approval for a press under 310 CMR 7.02 shall comply with applicable RACT requirements of 310 CMR 7.18(25) when such requirements become more stringent than those in 310 CMR 7.03(15).

(16) <u>Paint Spray Booths</u>. Construction, substantial reconstruction or alteration of any paint spray booth utilizing coatings, thinners, reducers and cleanup solutions, and complying with the applicable performance standard of 310 CMR 7.03(16)(b) through (l) shall be subject to the requirements in 310 CMR 7.03(16)(m) and either 310 CMR 7.03(16)(a)1. or 2.

(a) 1. The total facility, including the new or modified paint spray booth, shall use less than 670 gallons per calendar month of all materials containing VOCs, or alternatively, has an emission rate of less than 2.5 tons of VOC per calendar month. This emission rate includes all coating operations at the facility. The owner/operator is subject to the reporting requirements of 310 CMR 7.12.

2. The total facility, including the new or modified paint spray booth, shall use less than 2,000 gallons per 12-month rolling period of any material containing organic material (includes VOC), or alternatively, has an emission rate less than ten tons of organic material (includes VOC) per 12-month rolling period. This emission rate includes all coating operations at the facility. The owner/operator is not subject to the reporting requirements of 310 CMR 7.12 unless otherwise required.

(b) The coating operation shall be of a type described in 310 CMR 7.18, regardless of annual or potential emission applicability criteria contained in 310 CMR 7.18. These operations are:

310 CMR 7.18(3) Metal Furniture Surface Coating;

310 CMR 7.18(4) Metal Can Surface Coating;

310 CMR 7.18(5) Large Appliance Surface Coating;

310 CMR 7.18(6) Magnetic Wire Insulation Surface Coating;

310 CMR 7.18(10) Metal Coil Coating;

310 CMR 7.18(11) Surface Coating of Miscellaneous Metal Parts and Products;

310 CMR 7.18(21) Plastic Parts Surface Coating;

310 CMR 7.18(22) Leather Surface Coating;

310 CMR 7.18(23) Wood Products Surface Coating;

310 CMR 7.18(24) Flat Wood Paneling Surface Coating; and

310 CMR 7.18(28) Automotive Refinishing.

Operations not listed in 310 CMR 7.03(16)(b) are not covered by this exemption and require either a Limited Plans Application (LPA) or Comprehensive Plans Application (CPA) as required by 310 CMR 7.02.

(c) All coatings used in the new or modified spray booth shall comply with the as-applied formulations contained in 310 CMR 7.18 for the spray coating of material described by the relevant subsection. Notwithstanding the previous statement, for any person who owns, leases, operates or controls a facility with coating operation(s) subject to 310 CMR 7.03(16), the emissions of VOC from any coatings used in small amounts at the facility are exempt from the emission limitations of the relevant subsection, provided the person satisfies the following conditions:

1. the total amount of all coatings exempted does not exceed 55 gallons during any rolling 12 month period at the facility; and,

2. the person identifies and tracks the usage of the coatings covered by this exemption; and,

3. the person complies with the record keeping and testing requirements of the applicable section(s) of 310 CMR 7.03(16)(b).

(d) Spray guns shall utilize one of the following methods of spray application and be maintained and operated in accordance with the recommendations of the manufacturer:

1. Electrostatic spray application; or

2. High Volume Low Pressure (HVLP) spray application; or

3. Any other coating application method that achieves a transfer efficiency equivalent

to electrostatic or HVLP spray application and is approved by the Department in writing. (e) Each paint spray booth shall utilize two or more layers of dry fiber mat filter with a total thickness of at least two inches or an equivalent system as determined in writing by the Department and that achieves particulate control efficiency of at least 97% by weight. Filter material shall be disposed in accordance with all applicable DEP regulations.

(f) Face velocity of air at filter shall not exceed 200 feet per minute.

(g) For surface preparation, prior to coating, the VOC content of any surface preparation solution shall not exceed 1.67 pounds per gallon. However, for surface preparation of plastic parts the VOC content of the surface preparation solution shall not exceed 6.5 pounds of VOC per gallon.

(h) Spray guns shall be cleaned in a device that:

1. minimizes solvent evaporation during the cleaning, rinsing, and draining operations;

2. recirculates solvent during the cleaning operation so that the solvent is reused; and,

3. collects spent solvent in a container with a tight-fitting cover so that it is available for proper disposal or recycling.

(i) The paint spray booth shall have a stack conforming to the following criteria:

1. The stack shall discharge vertically upwards;

2. The stack shall not have rain protection of a type that restricts the vertical exhaust flow;

3. The stack gas exit velocity shall be greater than 40 feet per second; and

4. The minimum stack exit height shall be 35 feet above the ground or ten feet above roof level.

(j) Emissions from stack shall have 0% opacity.

(k) Sufficient records shall be prepared and maintained to demonstrate compliance for each calendar month. Such records shall include, but are not limited to:

- 1. For each coating, as applied:
 - a. Gallons of coating used;
 - b. Coating density (Pounds per gallon);
 - c. Pounds of VOC per gallon of coating;
 - d. Pounds of solids per gallon of coating;
 - e. Pounds of water per gallon of coating;
 - f. Pounds of other non-VOC liquid per gallon of coating; and
 - g. Pounds of VOC per gallon of solids as applied.
- 2. Gallons of exempt/non-compliance coatings used; and
- 3. Gallons of cleanup solution used and pounds VOC per gallon; and

4. Maintenance records of filter pad replacement and disposal.

(1) As an alternative to 310 CMR 7.03(16)(k)1. and (k)2., persons subject to 310 CMR 7.18(28): *Automotive Refinishing* shall maintain purchase records of coatings and surface preparation products on a monthly basis. The purchase records shall be summarized and include coating category, coating or coating component, and surface preparation product as identified on the container, the quantity of each coating or component, and surface preparation product, and the VOC content (in pounds per gallon) of each coating and surface preparation product, after mixing according to the manufacturer's instructions. Records shall be kept for three years, and be made available to representatives of the Department upon request.

(m) Any person who complies with 310 CMR 7.03(16), in *lieu* of obtaining a plan approval for a spray booth under 310 CMR 7.02, shall comply with applicable RACT requirements of 310 CMR 7.18(3) through (6), (10), (11), (21) through (24), and (28) when such requirements become more stringent than those in 310 CMR 7.03(16).

(17) <u>Groundwater/Soil Venting Systems</u>. Construction, substantial reconstruction or alteration of any Contaminated Groundwater Treatment System (CGTS) or contaminated soil venting system complying with the following criteria:

(a) CGTS or contaminated soil venting systems shall be equipped and operated such that the system continuously reduces VOC in air effluent stream by at least 95% (by weight). Such systems include, but are not limited to, the following:

1. CGTS followed by carbon adsorber, incinerator or equivalent air pollution control device; or

2. Contaminated soil venting followed by carbon adsorber, incinerator or equivalent air pollution control device.

(b) Systems shall be equipped and operated with the necessary procedures and instrumentation to assure operation in compliance with this standard including, but not limited to:

1. Interlock to prevent operation of the entire system without proper control device operation including, but not limited to, automatic shutoff if incinerator drops below normal operating temperature;

2. Inlet/outlet incinerator temperature indicators;

3. For a CGTS, flowmeter(s) indicating rate and total amount of groundwater being treated, if applicable; and

4. On-site regeneration of carbon or regularly scheduled replacement of carbon, if used.

(d) Sufficient records shall be prepared and maintained to demonstrate emissions compliance for each month. Records shall include, but are not limited to the following, as applicable:

1. Once per month, measurement of water flow rate and total flow to date for the month;

2. For a CGTS, once per month measurement of inlet and effluent water VOC concentration;

3. Once per month, measurement of VOC concentration in air prior to control, and VOC concentrations after control;

4. Once per month, measurement of overall VOC reduction efficiency of the air pollution control system in percent by weight;

- 5. Maintenance records of the system;
- 6. Monthly operating hours of the system;
- 7. Once per month, measurement of incinerator outlet temperatures; and
- 8. Carbon regeneration/replacement records.

(18) <u>Fuel Cells</u>. Construction, substantial reconstruction or alteration of any fuel cell(s) complying with the following criteria:

(a) The emissions from the fuel cell will not exceed the following standards based upon a one hour averaging time:

- 1. $NO_x 0.03$ pounds per megawatt hour.
- 2. Carbon Monoxide 0.05 pounds per megawatt hour.

3. Non methane organic compounds - 0.008 pounds per megawatt hour.

(b) Any person subject to 310 CMR 7.03(18) shall keep records of monthly electric generation.

(19) <u>Flexographic, Gravure, Letterpress and Screen Printing</u>. On and after May 1, 1998, construction, substantial reconstruction, or alteration of any flexographic, gravure, letterpress, or screen printing press at a facility that is not subject to 310 CMR 7.26(20) through (29), but that is utilizing materials containing VOC or organic material including, but not limited to, printing inks and overprint coating, alcohol, makeup solvents, and cleanup solutions complying with the applicable performance standards in 310 CMR 7.26(25) and 310 CMR 7.26(26), shall be subject to the limits and reporting requirements in either 310 CMR 7.03(19)(a)1. or 2. and shall also be subject to the requirements in 310 CMR 7.03(19)(c) and to the recordkeeping requirements in 310 CMR 7.03(19)(b).

(a) 1. The total facility including, but not limited to, the new or modified printing press, and non-printing operations at the facility, shall use less than 670 gallons per calendar month of all materials containing VOCs or, alternatively, the total facility emission rate shall be less than 2.5 tons of VOC per calendar month. The owner/operator is subject to the reporting requirements of 310 CMR 7.12; or

2. The total facility including, but not limited to, the new or modified printing press, and non-printing operations at the facility, shall use less than 2,000 gallons per 12-month rolling period of all materials containing organic material (includes VOC) or, alternatively, the total facility emission rate shall be less than ten tons of organic material (includes VOC) per 12-month rolling period. The owner/operator is not subject to the reporting requirements of 310 CMR 7.12 unless otherwise required.

(b) Any person subject to 310 CMR 7.03(19) shall maintain records sufficient to demonstrate compliance. Such records shall include, but are not limited to, records demonstrating that cleanup solutions, inks, coatings, and adhesives are in compliance with applicable standards set forth in 310 CMR 7.26(20) through (29) and that the usage rate or the emissions rate do not exceed the rates set forth in 310 CMR 7.03(19)(a). Records kept to demonstrate compliance shall be kept on site for five years and shall be made available to representatives of the Department upon request.

(c) Any person who complies with 310 CMR 7.03(19), in *lieu* of obtaining a plan approval for a press under 310 CMR 7.02, shall comply with applicable RACT requirements of 310 CMR 7.18(12) and (25) and 310 CMR 7.26(20) through (29) when such requirements become more stringent than those in 310 CMR 7.03(19).

(21) <u>Corona Surface Treatment Devices</u>. Construction, substantial reconstruction or alteration of any bare-roll or covered-roll corona surface treatment device equipped with a catalytic ozone decomposer designed to reduce ozone emissions by 99.9% or to an emission limit of 0.1 ppm at the catalytic device outlet.

(22) <u>Conveyors, and Dry Material Storage (Except Silos)</u>. Construction, substantial reconstruction or alteration of equipment used exclusively to convey or store dry solid materials in an enclosed system or equipped with a fabric filter or equivalent particulate control device capable of maintaining 99.5% control efficiency for particulate emissions. In addition, said operation shall not generate any visible emissions and shall comply with provisions of 310 CMR 7.10: *U Noise*. This standard is not applicable to conveyors and dry material storage associated with Standard Industrial Classification Code Major Group 1400 (Mining), Major Group 2900 (Petroleum and Coal products) and Major Group 3200 (Stone, Clay and Glass Products).

(23) <u>Temporary Boilers</u>. Construction or installation of a temporary boiler at a facility where a boiler is no longer available for use. A boiler is considered unavailable for use if it has been shut down for repair or inspection or is no longer available or operating due to circumstances beyond the control of the person who owns or operates the facility. Temporary boilers must meet the following conditions:

- (a) Have a maximum heat input capacity less than or equal to the boiler it is replacing;
- (b) Be installed for a period not to exceed 120 days;
- (c) Use the same or lower sulfur content fuel as the boiler it is replacing; and
- (d) Comply with all other applicable requirements for the boiler that it replaced.
- The Department may grant an extension to operate the temporary boiler beyond 120 days. Such an extension shall be considered upon receiving a written request for an extension. Approval of an extension will be issued in writing.

(24) <u>Welding</u>. Construction, substantial reconstruction, alteration or operation of welding equipment provided that:

(a) The facility uses ten tons or less of welding rod per year; and

(b) Each welding station is equipped with a ventilation system designed to vent fumes and particulate to a particulate collection device having a control efficiency of 90% or greater.

(25) <u>Biotechnology Surface Disinfection Processes.</u>

(a) Construction, substantial reconstruction, or alteration of any surface disinfection process used in making any of the following medical device, drug, or biologic products:

1. a product derived in whole or in part from biotechnology, and

2. one of the following applications or notices has been filed with U.S. Food and Drug Administration (FDA) for such product: an Investigational New Drug Application, an Investigational Device Exemption Notice, a New Drug Application, a premarket approval application, or a premarket notification pursuant to section 510(k) of the federal Food, Drug and Cosmetic Act (510(k)) (including an FDA-approved exemption from the 510(k) premarket notification requirement).

(b) Surface disinfection processes shall comply with the following criteria:

1. The total facility-wide actual emissions, including new or modified surface disinfection processes, shall comply with the requirements in either 310 CMR 7.03(25)(b)1.a. or b.

a. 15 tons of volatile organic compounds (VOC) per 12-month rolling period. This VOC emission limitation includes all process operations at the facility. In addition, facility-wide actual emissions of VOC shall not exceed 2.5 tons per calendar month. The owner/operator is subject to the reporting requirements of 310 CMR 7.12.

b. Less than ten tons of materials containing organic material (includes VOC) per 12-month rolling period. This organic material emission limitation includes all process operations at the facility. The owner/operator is not subject to the reporting requirements of 310 CMR 7.12 unless otherwise required.

2. The total facility-wide actual emissions, shall not exceed nine tons of any single Hazardous Air Pollutants (HAP as defined at 40 CFR Part 63) per 12-month rolling period, and shall not exceed 15 tons of any combination of (total) HAP per 12-month rolling period. In addition, facility-wide actual emissions of any individual HAP shall not exceed two tons per calendar month, and any combination of (total) HAP shall not exceed three tons per calendar month.

3. Processes that emit or will emit VOCs or HAPs in exceedance of limitations for VOCs and HAPs established in 310 CMR 7.02(25)(b)1. or 2., are subject to 310 CMR 7.02(5), and a person shall obtain written Department plan approval prior to commencement of construction, installation and operation of said processes.

4. Combustion processes that support processes subject to 310 CMR 7.03(25) are subject to regulatory standards found at 310 CMR 7.02, 310 CMR 7.03, or 310 CMR 7.26.

5. Cleaning, sterilization, disinfection, and other operations:

a. Cleaning, sterilization, disinfection, and other solutions which contain VOC shall be kept in tightly closed containers when not in active use and during transport and storage, and

b. The spent cleaning cloths and/or wipes used in conjunction with the cleaning and sterilization solutions shall be placed, after use, in tightly closed containers and collected for proper recycling or disposal.

6. Any person subject to this regulatory standard shall maintain records sufficient to demonstrate compliance with 310 CMR 7.03(25) for each calendar month. Records kept to demonstrate compliance with 310 CMR 7.03(25) shall be maintained on-site for five years and shall be made available to representatives of the Department upon request. For each process and operation, such records shall include, but not be limited to:

- a. Gallons of VOC used;
- b. Pounds of VOC used;
- c. Gallons of individual and total HAP used; and
- d. Pounds of individual and total HAP used.

(26) Rock Crushing and Processing Operations - Existing Equipment Replacement.

(a) <u>Applicability on and after July 24, 2009</u>. 310 CMR 7.03(26) shall apply to the replacement of equipment at a rock crushing and processing facility operating with a written plan approval from the Department under the provisions of 310 CMR 7.02.

(b) <u>Definitions</u>. When used in 310 CMR 7.03(26) the following terms shall mean:

1. <u>Conveying Systems</u> means a device for transporting materials from one piece of equipment or location to another piece of equipment or location.

2. <u>Crusher</u> means a machine used to crush nonmetallic minerals into smaller pieces, and includes, but is not limited to, the following types: jaw, gyratory, cone, roll, rod mill, hammermill, and impactor.

3. <u>Dust Suppression System</u> means a water spray system designed to minimize fugitive emissions throughout the rock crushing and processing operation.

4. <u>Rock Crushing and Processing Equipment</u> means a combination of equipment that is used to crush and sort nonmetallic minerals including, but not limited to, crushers, screening operators, conveying systems, dust suppression systems, feeders, and wash systems.

5. <u>Screening Operation</u> means a device for separating material according to size by passing undersized material through one or more mesh surfaces (screens) in series, and retaining oversized material on the mesh surfaces.

(c) <u>Equipment Replacement</u>. An owner or operator may replace rock crushing and processing equipment under the provisions of 310 CMR 7.03(26) provided that:

1. The rock crushing and processing equipment was previously approved by the Department in writing under the provisions of 310 CMR 7.02 and said approval is valid at the time of equipment replacement, and

2. Equipment replacement will not increase overall processing capacity or emissions (including noise) from the rock crushing and processing operation, and

3. The owner or operator complies with the provisions of 310 CMR 7.03(26) in its entirety, and

4. The rock crushing and processing operation shall be equipped with a dust suppression system that will limit opacity to less than 10% at all time, and

5. The rock crushing and processing operation will be operated in accordance with all applicable conditions and limitations contained in the Department's plan approval for the original equipment.

(d) <u>Testing</u>. Within seven days of recommencement of operation after completion of equipment replacement, visible emission observations shall be conducted for the rock crushing and processing operations in accordance with 40 CFR 60: *Appendix A Method 9* to verify compliance with 310 CMR 7.03(26)(c)4.

(e) <u>Record Keeping</u>. Records documenting any equipment replacement as provided in 310 CMR 7.03(26) and of visible emission observations as required by 310 CMR 7.03(26)(d) shall be maintained on-site in accordance with the provisions of 310 CMR 7.03(6).

(f) <u>Reporting</u>. Replacement of equipment shall be reported to the Department in accordance with the provisions of 310 CMR 7.03(5).

(g) <u>Duty to Comply</u>. Compliance with the provisions of 310 CMR 7.03(26) does not obviate the need to comply with 40 CFR 60 Subpart OOO if applicable.

7.04: U Fossil Fuel Utilization Facilities

((1) Reserved)

(2) <u>U Smoke Density Indicator</u>.

(a) on or after June 1, 1990, no person shall cause, suffer, allow, or permit the burning of any grade oil or solid fuel in any fuel utilization facility having an energy input capacity rated by the Department equal to or greater than 40,000,000 Btu per hour, unless such facility is equipped with a smoke density sensing instrument and recorder which are properly maintained in an accurate operating condition, operates continuously and is equipped with an audible alarm to signal the need for combustion equipment adjustment or repair when the smoke density is equal to or greater than No. 1 of the Chart. Such smoke density equipment shall be available for inspection at reasonable times by a representative of the Department. Such inspection may include the review of recording charts which must be retained and made available for a period of one year from the date of use.

(b) the Department may require any fuel utilization facility, other than those specified under the provision of 310 CMR 7.04 (2)(a) to be equipped with smoke density sensing devices and appurtenances if, in the opinion of the Department, such are deemed necessary.

(c) On or after July 1, 2000 any person owning or operating a fuel utilization facility with an energy input capacity equal to or greater than 10,000,000 Btu per hour but less than 40,000,000 Btu per hour is no longer required to install or maintain a smoke density sensing instrument and recorder even if required in a previous plan approval. Applicability is based on the size of an individual fuel utilization emission unit.

(d) Notwithstanding the requirements of 310 CMR 7.04(2)(a) and (c), a new or modified fuel utilization facility may be required to install instrumentation to monitor opacity should it be subject to New Source Performance Standards contained at 40 CFR Part 60, Subparts D, Da, Db or Dc.

- ((3) Reserved)
- (4) <u>U Inspection, Maintenance and Testing</u>.

(a) On and after December 31, 1977, no person shall cause, suffer, allow, or permit the operation of any fossil fuel utilization facility rated by the Department as having an energy input capacity equal to or greater than 3,000,000 Btu per hour unless said facility has been inspected and maintained in accordance with the manufacturers recommendations and tested for efficient operation at least once in each calendar year. The results of said inspection, maintenance, and testing and the date upon which it was performed shall be recorded and posted conspicuously on or near the facility. Unless otherwise required, 310 CMR 7.04(4)(a) shall not apply to stationary combustion turbines and stationary reciprocating engines.

(b) No person shall cause, suffer, allow, or permit the removal, alteration or shall otherwise render inoperative any air pollution control equipment which has been installed as a requirement of 310 CMR 7.00, other than for reasonable maintenance periods or unexpected and unavoidable failure of equipment.

(5) <u>U Fuel Oil Viscosity</u>. On or after July 1, 1978, no person shall cause, suffer, allow, or permit the burning of any grade residual oil in any fossil fuel utilization facility with an energy input capacity rated by the Department as equal to or greater than 250,000,000 Btu per hour unless said facility is equipped with an automatic viscosity controller that shall control the viscosity of the fuel oil to the burners. The automatic controller shall be of a type approved by the Department.

The Department may require a fossil fuel utilization facility with an energy input capacity rated by the Department as equal to or greater than 100,000,000 Btu per hour but less than 250,000,000 Btu per hour to be equipped with an automatic viscosity controller if, in the opinion of the Department, such is deemed necessary.

(6) \underline{U} . No person shall cause, suffer, allow, or permit the installation or use of any material, article, machine, equipment, or contrivance which conceals an emission without reducing the total weight of emissions where such emission would constitute a violation of any applicable regulation.

(7) CM Prohibition of Unapproved Burners in the City of Worcester.

(a) Upon receipt of written notification from the Department, no person shall cause, suffer, allow, or permit the operation of a fossil fuel utilization facility having an energy input capacity greater than 3,000,000 Btu per hour located in the City of Worcester utilizing a burner or burners of a design not approved by the Department, without the approval of the Department pursuant to 310 CMR 7.00.

(b) 310 CMR 7.04(7)(a) shall not apply to those facilities having met any one of the following conditions:

1. demonstrated an ability to maintain compliance with applicable regulations;

2. demonstrated to the satisfaction of the Department that the fossil fuel utilization facility is used only as an emergency or standby unit; or

3. demonstrated to the satisfaction of the Department that utilization of distillate fuel oil in the fossil fuel utilization facility will not cause a violation 310 CMR 7.00.

(c) No person shall cause, suffer, allow, or permit the operation of any fossil fuel utilization facility subject to the provisions of 310 CMR 7.04(7)(a) unless said person has submitted a schedule to the Department on a form provided by the Department specifying the dates by which compliance with 310 CMR 7.04(7)(a) will be achieved. Compliance in all instances shall be achieved as expeditiously as practicable but in no case later than September 1, 1980.

(8) <u>CM Prohibition of Natural Draft in Fossil Fuel Utilization Facilities in the City of</u> Worcester.

(a) Upon receipt of written notification from the Department, no person shall cause, suffer, allow, or permit the use of natural draft as a secondary air supply in a fossil fuel utilization facility having an energy input capacity greater than 3,000,000 Btu per hour located in the City of Worcester, without the approval of the Department pursuant to 310 CMR 7.00
(b) 310 CMR 7.04(8)(a) shall not apply to those facilities having met either of the following

conditions:

1. demonstrated an ability to maintain compliance with applicable regulations; or

2. demonstrated to the satisfaction of the Department that the fossil fuel utilization facility is used only as an emergency or standby unit.

(c) No person shall cause, suffer, allow, or permit the operation of any fossil fuel utilization facility subject to the provisions of 310 CMR 7.04(8)(a) unless said person has submitted a schedule to the Department specifying the dates by which compliance with 310 CMR 7.04(8)(a) will be achieved. Compliance in all instances shall be achieved as expeditiously as practicable, but in no case later than September 1, 1980.

(9) Used Oil Fuel.

(a) Except as provided for in 310 CMR 7.04(9)(b) through (d), no person having control of a fossil fuel utilization facility shall cause, suffer, allow, or permit the burning therein of used oil fuel unless:

1. the Department has in writing approved the plans, specifications, Standard Operating Procedure, and maintenance procedure for the facility in which the used oil fuel is to be burned, and

2. the used oil fuel is burned in said facility in accordance with the plans, specifications, Standard Operating Procedure, and maintenance procedure as approved in writing by the Department, including all terms and conditions which the Department may include in such approval, and

3. a minimum combustion efficiency of 99.5% is achieved, and

4. the energy input capacity for each individual facility is equal to or greater than 3,000,000 Btu per hour.

(b) A person who, on July 1, 1986, was lawfully burning used oil fuel in a fossil fuel utilization facility other than a used oil fuel fired space heater may continue to do so

1. between that date and December 31, 1986 only if

a. a minimum combustion efficiency of 99.5% is achieved, and

b. the energy input capacity for each individual facility is equal to or greater than 3,000,000 Btu per hour, and

c. the activity is in compliance with all applicable provisions of 310 CMR 7.00, except that specific approval by the Department to burn used oil fuel in the fossil fuel utilization facility shall not be required during that time, and

d. the activity is in compliance with all applicable provisions of 310 CMR 30.099(16) and 310 CMR 30.200, including but not limited to the conditions set forth in 310 CMR 30.205, except that a recycling permit shall not be required during that time, and

2. after December 31, 1986 only if

a. such person has applied in writing to the Department for the Department's approval of the plans, specifications, Standard Operating Procedure, and maintenance procedure for the fossil fuel utilization facility in which the used oil fuel is to be burned, and

b. such application was received by the Department by no later than December 31, 1986, and

c. such application has not been denied by the Department, and

d. the activity is in compliance with all applicable provisions of 310 CMR 7.00, except that specific approval by the Department to burn used oil fuel in the fossil fuel utilization facility shall not be required while such application is pending, and

e. the activity is in compliance with all applicable provisions of 310 CMR 30.099(16) and 310 CMR 30.200, including but not limited to the conditions set forth in 310 CMR 30.205, except that a recycling permit shall not be required while the application referred to in 310 CMR 30.099(16) is pending, and

- f. a minimum combustion efficiency of 99.5% is achieved, and
- g. the energy input capacity for each individual facility is equal to or greater than 3,000,000 Btu per hour.

(c) No person shall sell or distribute, or offer for sale or distribution, any used oil fuel fired space heater unless the energy input capacity of the space heater is equal to or less than 500,000 Btu per hour.

(d) No person shall cause, suffer, allow, or permit the burning of used oil fuel in any space heater unless:

1. the energy input capacity of the space heater is equal to or less than 500,000 Btu per hour,

2. the combustion gases are vented vertically to the ambient air so as to not cause or contribute to a condition of air pollution,

3. the used oil fired space heater is integrally connected to a tank that supplies the used oil fuel to the space heater,

4. the used oil fired space heater is operated and maintained in accordance with the manufacturers recommended operating and maintenance procedures, and the used oil fired space heater is not operated during the period from June 15th through September 15th,

5. the used oil fuel is burned at the site of generation, or off the site of generation as a supplemental fuel source, which may include used oil fuel generated and transported by a very small quantity generator pursuant to 310 CMR 30.353, or used oil fuel generated by a household as described in 310 CMR 30.104(6);

6. the used oil fuel is hazardous waste only because it is waste oil pursuant to 310 CMR 30.131, and has a flash point of 100°F or higher; and

7. the burning of the used oil fuel in the used oil fuel fired space heater is done in compliance with all other applicable regulations and requirements of the Department, the local fire department and the Office of the Massachusetts State Fire Marshall.

7.05: U Fuels All Districts

(1) <u>Sulfur Content of Fuels</u>. (except natural gas)

(a) Maximum Sulfur Content of Fuel.

1. No person owning, leasing or controlling the operation of a fossil fuel utilization facility shall cause, suffer, allow or permit the burning therein of any liquid fossil fuel having a sulfur content in excess of that listed in 310 CMR 7.05(1)(a)1.: *Table 1* and in accordance with the timelines listed in 310 CMR 7.05(1)(a)1.: *Table 1*, and/or of any solid fossil fuel having a sulfur content in excess of that listed in 310 CMR 7.05(1)(a)1.: *Table 1*, and/or of any solid fossil fuel having a sulfur content in excess of that listed in 310 CMR 7.05(1)(a)1.: *Table 2*, except as provided in 310 CMR 7.05(1)(b).

2. On and after July 1, 2014, no person owning, leasing or controlling the operation of an indirect heat exchanger with an energy input capacity equal to or greater than 250 MMBtu per hour providing steam to a steam-electric generator that produces electrical energy for sale shall cause, suffer, allow or permit the burning therein of any residual fuel oil having a sulfur content in excess of 0.28 pounds per million Btu heat release potential (*i.e.*, 0.5% sulfur content by weight), except as provided in 310 CMR 7.05(1)(b).

3. <u>Stationary Engines and Turbines</u>. On and after July 1, 2007, no person owning, leasing or controlling a stationary engine or turbine subject to the requirements of 310 CMR 7.02(8)(i), 310 CMR 7.03(10), or 310 CMR 7.26(40) through (44) shall accept for delivery for burning any diesel or other fuel unless said fuel complies with the applicable U.S. Environmental Protection Agency sulfur limits for fuel pursuant to 40 CFR 80.29, 40 CFR 80.500, and 40 CFR 80.520(a) and (b) as in effect January 18, 2001.

310 C	MR 7.05(1)(a)1.:	Table 1: Sulfur Con	tent Limit of Liquid F	ossil Fuel
District/Area	Fuel	Heat Release Potential, lb/MMBtu	Percent by Weight (parts per million, ppm)	Applicability Date
Statewide	Distillate Oil	0.17	0.3% (3,000)	Prior to July 1, 2014
Statewide	Distillate Oil	Not Applicable	0.05% (500)	July 1, 2014 through June 30, 2018
Statewide	Distillate Oil	Not Applicable	0.0015% (15)	on and after July 1, 2018
Berkshire APCD	Residual Oil	1.21	2.2%	June 23, 1975
Cities and Towns of Arlington, Belmont, Boston, Brookline, Cambridge, Chelsea, Everett, Malden, Medford, Newton Somerville, Waltham, and Watertown	Residual Oil	0.28	0.5%	October 1, 1970
Merrimack Valley APCD, (Except City of Lawrence and Towns of Andover, North Andover, and Methuen)	Residual Oil	1.21	2.2% (1.0%)	Prior to July 1, 2014
Merrimack Valley APCD	Residual Oil	0.55	1.0%	July 1, 2014 through June 30, 2018
Remainder of State	Residual Oil	0.55	1.0%	Prior to July 1, 2018
Statewide except Berkshire APCD	Residual Oil	0.28	0.5%	On and after July 1, 2018

310 CMR 7.05(1)(a)1.: Table 2: Sulfur Content Limit of Solid Fossil Fuel			
District/Area	Fuel	Heat Release Potential, lb/MMBtu	Percent by Weight
Berkshire APCD and Merrimack Valley APCD, except City of Lawrence and Towns of Andover, North Andover, and Methuen	Coal	1.21	1.57%
Cities and Towns of Arlington, Belmont, Boston, Brookline, Cambridge, Chelsea, Everett, Malden, Medford, Newton Somerville, Waltham, and Watertown	Coal	0.28	0.36%
Remainder of State, including City of Lawrence and Towns of Andover, North Andover, and Methuen	Coal	0.55	0.72%

(b) Exceptions.

1. Any person with an existing approval issued by the Department that allows the burning of fossil fuel oil with a sulfur content in excess of the limits in 310 CMR 7.05(1)(a)1.: *Table 1* may burn such fuel in compliance with the Department's approval until July 1, 2014. Beginning on July 1, 2014, such person shall comply with the fuel oil sulfur content limits in 310 CMR 7.05(1)(a)1.: *Table 1*, except as provided in 310 CMR 7.05(1)(b)2. or 3.

2. Any person owning, leasing or controlling the operation of a fossil fuel utilization facility may burn any existing stock of fossil fuel oil at the facility, but shall not accept delivery of fuel with a sulfur content in excess of the limits in 310 CMR 7.05(1)(a)1.: *Table 1* on or after the applicable date(s) in 310 CMR 7.05(1)(a)1.: *Table 1*, except as provided in 310 CMR 7.05(1)(b)3.

3. The sulfur content limits in 310 CMR 7.05(1)(a)1.: *Table 1* and *Table 2* shall not apply to a facility whose owner or operator has applied for and received approval from the Department and EPA of a plan whereby use of a fuel with a sulfur content in excess of the limits in 310 CMR 7.05(1)(a)1.: *Table 1* and *Table 2* would cause no greater emissions of sulfur compounds into the ambient air than if the applicable sulfur content fuel in 310 CMR 7.05(1)(a)1.: *Table 1* and *Table 2* were used. The plan must be approved by the Department, in writing, and any conditions attached to the Department's approval must be agreed to by the applicant, in writing.

4. Approval granted under the provisions of 310 CMR 7.05(1)(b)1. or 3. may be revoked by the Department for cause or when in its opinion revocation is necessary to prevent or abate a condition of air pollution.

(2) <u>U Use of Residual Fuel Oil or Hazardous Waste Fuel</u>. No person owning, leasing or controlling an individual fuel utilization emission unit rated by the Department as having an energy input capacity of less than 3,000,000 Btu per hour shall cause, suffer, allow or permit the burning of any residual fuel oil or hazardous waste fuel therein.

(3) <u>Ash Content of Fuels (Except Natural Gas)</u>.

(a) No person shall cause, suffer, allow or permit the burning in the Commonwealth of any solid or solid/liquid mixture fossil fuel containing an ash content in excess of 4% by dry weight, except as provided in 310 CMR 7.05(3)(b) and (c).

(b) In CM, MV, and SM, fossil fuel utilization facilities having an energy input capacity rated by the Department of 250,000,000 or greater Btu per hour, may burn solid or solid/liquid mixture fossil fuel with an ash content in excess of 9% by dry weight, provided that:

1. An application is made to the Department in writing to use such fuel and any information as the Department may require is submitted;

2. The Department determines that the use of such fuel would not cause other applicable air pollution control regulations or ambient air quality standards to be violated; and

3. The use of such fuel has been approved, in writing, by the Department and the conditions of approval have been agreed to by the applicant, in writing. Such conditions of approval may include the installation, operation and maintenance of ambient air monitoring equipment by the applicant, in a manner specified by the Department.

(c) In MB, B and PV, all fossil fuel utilization facilities may burn solid or solid/liquid mixture fossil fuel with an ash content in excess of 9% by dry weight, provided that:

1. An application is made to the Department in writing to use such fuel and any information as the Department may require is submitted;

2. The Department determines that the use of such fuel would not cause other applicable air pollution control regulations or ambient air quality standards to be violated; and

3. The use of such fuel has been approved, in writing, by the Department and the conditions of approval have been agreed to by the applicant, in writing. Such conditions of approval may include the installation, operation and maintenance of ambient air monitoring equipment by the applicant, in a manner specified by the Department.

(4) <u>Fuel Additives</u>. No person owning, leasing or controlling a fuel utilization facility shall cause, suffer, allow or permit the use therein of any fuel additive except in accordance with the manufacturer's recommended specifications.

(5) <u>Fuel Suppliers</u>.

(a) No person shall ship or deliver in intrastate commerce to any person for burning or reshipment for burning, any fuels with a sulfur content in excess of those specified in 310 CMR 7.05(1)(a)1, except that such shipment may be provided when:

1. Use of such fuel has been approved by the Department in writing;

2. Such approval has been verified by the shipper; and

3. Record of such shipment shall be retained for two years and the record shall be made available to the Department for its review and inspection during customary business hours.

(b) Any person supplying in intrastate commerce for burning or for reshipment for burning, fuel oil of a grade No. 2 or greater or coal shall keep and maintain records showing the quantities of the fuels handled and analyses showing the Btu value, sulfur content, nitrogen content (required only for residual fuel oils), viscosity, and ash content of said fuels and make such records available to the Department for its review and inspection during customary business hours.

(c) Any person supplying residual fuel oil in intrastate commerce shall provide certification of the nitrogen content of the oil to its customers as determined by the applicable ASTM method or any other method approved by the Department and EPA.

(d) Shippers and distributors of fossil fuels shall provide evidence, to the satisfaction of customer-users, of the ash content of fuels supplied.

(6) All fuel analyses to be performed by or for distributors, suppliers or users of fuels, for purposes of 310 CMR 7.00, shall be performed in accordance with the applicable ASTM method or any other method approved by the Department and EPA.

(7) No person owning, leasing, or controlling the operation of a fossil fuel utilization facility shall cause, suffer, allow, or permit the burning therein of any quantity, batch, or lot of used oil fuel unless:

(a) that quantity, batch, or lot of used oil fuel was generated and mixed at the site of said fossil fuel utilization facility by the person owning, leasing, or controlling the operation of said fossil fuel utilization facility in compliance with 310 CMR 30.201, or

(b) both of the following requirements are met:

1. said quantity, batch, or lot of used oil fuel was mixed in compliance with 310 CMR 30.201; and

2. the person owning, leasing, or controlling the operation of the fossil fuel utilization facility complied with 310 CMR 30.250.

(8) Except as provided in 310 CMR 7.05(9), no person owning, leasing, or controlling the operation of a fossil fuel utilization facility shall cause, suffer, allow, or permit the burning therein of any used oil fuel that does not meet the specifications set forth in 310 CMR 7.05(8): *Table 3*.

Constituent/Property	Allowable
Sulfur	As allowed pursuant to 310 CMR 7.05(1) for residual fuel oil
Total Halogens	4000 ppm or less
PCBs	Less than 50 ppm*
Higher Heating Value	120,000 or more Btu per gallon
Flash Point	100°F or more
Lead **	Less than 100 ppm
Arsenic **	5 ppm or less
Cadmium **	2 ppm or less
Chromium **	10 ppm or less

310 CMR 7.05(8): TABLE 3 STANDARDS FOR USED OIL FUEL

* The burning of PCBs in concentrations of 50 or more parts per million is prohibited unless done in compliance with 310 CMR 30.000.

** Does not apply to any facility equipped with air pollution control equipment that the Department determines, in writing: (1) is Best Available Control Technology (BACT) and (2) reduces emissions to a level equal to or less than would be emitted if a used oil fuel meeting the standard set forth in 310 CMR 7.05(8): *Table 3* were to be burned in compliance with 310 CMR 7.00 in a facility without BACT.

(9) 310 CMR 7.05(8) shall not apply to the burning of used oil fuel in a used oil fuel fired space heater provided that the requirements set forth in 310 CMR 7.04(9), 310 CMR 7.05(7)(a), and 310 CMR 30.250 are complied with.

7.06: U Visible Emissions

(1) <u>U Stationary Sources Other than Incinerators</u>.

(a) <u>Smoke</u>. No person shall cause, suffer, allow, or permit the emission of smoke which has a shade, density, or appearance equal to or greater than No. 1 of the Chart for a period, or aggregate period of time in excess of six minutes during any one hour, provided that at no time during the said six minutes shall the shade, density, or appearance be equal to or greater than No. 2 of the Chart.

(b) <u>Opacity</u>. No person shall cause, suffer, allow or permit the operation of a facility so as to emit contaminant(s), exclusive of uncombined water or smoke subject to 310 CMR 7.06(1)(a) of such opacity which, in the opinion of the Department, could be reasonably controlled through the application of modern technology of control and a good Standard Operating Procedure, and in no case, shall exceed 20% opacity for a period or aggregate period of time in excess of two minutes during any one hour provided that, at no time during the said two minutes shall the opacity exceed 40%.

(c) Exception.

1. <u>Visible Emission Limits</u>. In *lieu* of the requirements of 310 CMR 7.06(1)(a) and 310 CMR 7.06(1)(b), a facility subject to 310 CMR 7.00: *Appendix C - Operating Permits* with boilers rated less than 500 million Btu per hour energy input capacity, may elect to comply with the following:

a. Except as provided in 310 CMR 7.06(1)(c)1.b; 310 CMR 7.06(1)(c)1.c. and 310 CMR 7.06(1)(c)1.g., visible emissions shall not exceed 15 percent opacity during any six-minute block average.

b. During periods of start-up, shutdown, soot blowing, and other specified operating conditions, visible emissions from any boiler shall not exceed 27% opacity during any six-minute block average except that visible emissions may exceed 27% opacity for up to two six-minute block averages during the calendar quarter.

c. For a boiler equipped with a visible emission monitor with a numeric data reduction system that can printout individual block averages or output individual block averages to an electronic file, the Department will make a determination to approve or deny visible emissions during periods of startup, shutdown, soot blowing and other specified operating conditions to exceed 27% opacity for one-tenth of one percent of the total six-minute block averages during any calendar quarter, or six block averages per boiler per quarter, whichever is greater, provided visible emissions do not exceed 60% opacity during any six-minute block average.

i. At no time can visible emissions exceed 27% opacity for more than two sixminute block averages during a one-hour period and the one-hour block average opacity shall not exceed 27% opacity during the one-hour block period when a six-minute block averages exceeds 27% opacity.

ii. The one-hour average shall be based on a clock hour.

iii. Boilers may be approved to operate in accordance with the visible emission limitations provided by 310 CMR 7.06(1)(c)1.b. and 310 CMR 7.06(1)(c)1.c. during the same calendar quarter.

d. Compliance with visible emission limits shall be based upon a six-minute block average determined either

i. by the procedures set forth in Method 9, (as described in 40 CFR Part 60, Appendix A-4), or

ii. by a visible emission monitor required under a Plan Approval issued by the Department under 310 CMR 7.02, or

iii. at the request of a facility, by a visible emission monitor required under the Operating Permit and specified as such in the Approval of the Plan of Good Operating Practices under 310 CMR 7.06(1)(c).

e. Before a facility may operate in accordance with 310 CMR 7.06(1)(c) the facility must notify the Department in writing of such intention, develop and submit to the Department a plan of good operating practices, and receive notification from the Department that the plan has been approved;

f. Any facility operating pursuant to 310 CMR 7.06(1)(c) shall comply with a good operating practices plan as approved; and

g. When notified in writing at least five business days prior to scheduled shakedown activities, testing, and calibrations for the purpose of improving boiler performance, the Department may allow exemptions to 310 CMR 7.06(1)(c)1.a., 310 CMR 7.06(1)(c)1.b. and 310 CMR 7.06(1)(c)1.c. Such notification shall include a brief description of the activity, and its start time and anticipated end time. The Department may allow a shorter notification period upon request. The Department may deny or limit the frequency of such activities.

2. <u>Plan of Good Operating Practices</u>. The plan of good operating practices shall, at a minimum:

a. Be developed with recommendations from third party combustion systems experts:

b. Describe how the application of modern technology of control, and practices for operating and maintaining the equipment, will minimize visible emissions;

c. Describe any operating conditions other than startup, shutdown and soot blowing during which the facility proposes to take advantage of the exception in 310 CMR 7.06(1)(c);

d. Propose the duration and frequency of startup, shutdown, soot blowing and any other specified conditions;

e. Document the need for visible emission limitations greater than 15% opacity during startup, shutdown, soot blowing and any other specified operating conditions; f. Propose visible emission limitations that the facility will comply with during startup, shutdown, soot blowing and other specified operating conditions;

g. Describe all necessary corrective action procedures and include schedules for implementing such procedures; and

h. Propose record keeping and monitoring procedures sufficient to enable the Department to determine that visible emissions comply with the plan.

3. Department Action.

a. Upon completion of review, the Department shall either approve or disapprove the plan of good operating practices.

b. The terms and conditions of an approved plan shall be incorporated into the facility's Operating Permit.

c. A Department approval shall specify the visible emission limitations for each operating condition, (*i.e.* startup, shutdown, soot blowing and other specified operating conditions approved by the Department); and specify corresponding monitoring, record keeping and reporting requirements, and other conditions necessary to ensure compliance with the visible emission limitations contained in the approval.

d. Modifications to those portions of an approved plan that are not incorporated into the facility's Operating Permit shall be maintained on-site and made available to Department representatives upon request. Modifications to an approved plan shall be submitted to the Department for review with the facility's Operating Permit renewal application. The Department may require modification of an approved plan.

4. <u>Notice of Exceedances</u>. Any facility operating pursuant to a Department approved plant issued under this exception shall notify the Department of any exceedance of a visible emission limitation in the time and manner required by the relevant permit deviation provisions in the facility's Operating Permit. Opacity excursions greater than 27% that qualify as allowed under 310 CMR 7.06(1)(c)1.b. and 310 CMR 7.06(1)(c)1.c. shall not be considered deviations under the operating permit.

(2) <u>From Incinerators</u>.

(a) No person shall cause, suffer, allow, or permit the emission of smoke from any incinerator which has a shade, density, or appearance equal to or greater than No. 1 of the Chart or exceeding 20% opacity at any time.

(b) No person shall cause, suffer, allow or permit the operation of an incinerator so as to emit contaminant(s), exclusive of uncombined water or smoke subject to 310 CMR 7.06(2)(a) of such opacity which, in the opinion of the Department, could be reasonably controlled through the application of modern technology of control and a good Standard Operating Procedure.

(c) No person shall cause, suffer, allow, or permit emissions from any incinerator of any particles that have a dimension equal to or greater than 100 microns.

(3) <u>From Marine Vessels</u>. Marine vessels shall be subject to the provisions of 310 CMR 7.06(1)(a) and 7.06(1)(b). 310 CMR 7.06(3) shall apply only in the Merrimack Valley Air Pollution Control District, Metropolitan Boston Air Pollution Control District, and the Southeastern Massachusetts Air Pollution Control District.

(4) <u>From Aircraft</u>. After December 31, 1972, no person shall cause, suffer, allow, or permit the emission from an aircraft of smoke which has a shade, density, or appearance equal or greater than No. 2 of the Chart for a period of time in excess of ten seconds during landing, takeoff, or taxiing operations.

(5) <u>From Spark-ignited Internal Combustion Engines</u>.

(a) No person shall cause, suffer, allow, or permit emission of visible air contaminants, other than water, from internal combustion engines of:

1. portable or stationary equipment, other than motor vehicles, for longer than ten consecutive seconds; or

2. a motor vehicle after the vehicle has moved more than 100 feet from a place where the vehicle was stationary; or

3. a motor vehicle, for more than five consecutive seconds, under any condition of cruising or acceleration.

(6) <u>From Non-stationary Source Diesel Engines</u>. No person shall cause, suffer, allow, or permit excessive emission of visible air contaminants, other than water, from a diesel engine.

7.07: U Open Burning

(1) No person shall cause, suffer, allow or permit the open burning of any combustible material.

(2) 310 CMR 7.07(1) shall not apply to:

(a) open burning for the purpose of combating or backfiring an existing fire by persons affiliated with an official fire fighting agency;

(b) open burning conducted primarily for cooking purposes, or

(c) open burning related to the operation of devices such as blowtorches and welding torches, for which no alternative source of heat can be used, provided that such devices do not cause a condition of air pollution.

(3) Except during periods of adverse meteorological conditions as may be determined by the Department when direct or public notice thereof has been made by the Department through the news media, 310 CMR 7.07(1) shall not apply to open burning conducted for:

(a) training or research in fire protection or prevention with specific approval by the Department;

(b) activities associated with the normal pursuit of agriculture which have been determined by the Department as necessary and which include but are not limited to, open burning of blueberry patches for pruning purposes, dead raspberry stalks, fruit tree prunings, and infected behives for disease control;

(c) open burning of brush and trees resulting from agricultural land clearing operations;

(d) the disposal of fungus-infected elm wood provided that no suitable alternative method of disposal is available;

(e) the disposal of brush, cane, driftwood, and forestry debris excluding grass, hay, leaves, and stumps from January 15^{th} to May 1^{st} of each year. All such open burning shall be conducted:

1. on land proximate to the place of generation,

2. at a location greater than 75 feet from any dwelling, and

3. between ten o'clock A.M. and four o'clock P.M.

No such open burning shall apply to commercial or institutional land clearing for non-agricultural purposes.

Open burning under 310 CMR 7.07(3)(e) shall not be permitted in the Cities and Towns of Arlington, Belmont, Boston, Brookline, Cambridge, Chelsea, Chicopee, Everett, Fall River, Holyoke, Lawrence, Lowell, Malden, Medford, New Bedford, Newton, Somerville, Springfield, Waltham, Watertown, West Springfield, and Worcester, or where the Department has notified a city or town that:

1. open burning under this provision may cause or contribute to non-attainment of federal or state ambient air quality standards for particulate matter,

2. open burning under this provision may cause or contribute to a condition of air pollution, or

3. open burning under this provision is not permitted due to continued violations of the provisions for the proper conduct of such open burning. (Such action shall be taken only after said city or town has been given written notification of such violations and has in the opinion of the Department failed to take appropriate actions to prevent the continuance of such violations.)

Upon request of the Department the permitting authority of any City or Town shall notify the Department of the number of permits issued during any burning period.

(f) the disposal of combustible material with the approval of the Department and after demonstration to the satisfaction of the Department that no alternative suitable method of disposal is available;

(g) open burning as described in 310 CMR 7.07(3)(a) through 310 CMR 7.07(3)(f) must be conducted:

- 1. during periods of good atmospheric ventilation,
- 2. without causing a nuisance,
- 3. with smoke minimizing starters if starters or starting aids are used, and

4. under the provisions of a properly executed permit issued under the provisions of M.G.L. c. 48, § 13^*

(4) Except as may be incidental to compliance with the provisions contained in 310 CMR 7.07(2) and 310 CMR 7.07(3) no person shall stack, place, or store combustible material in such manner as to cause or allow presumption by the Department that such material may be subject to reduction by open burning.

(5) Notwithstanding the provisions of 310 CMR 7.07(3), no person shall cause, suffer, allow or permit open burning at any refuse disposal facility other than an incinerator as described in M.G.L. c. 111, § 150A.

(6) 310 CMR 7.07(1) through 7.07(5) are subject to the enforcement provisions specified in 310 CMR 7.52.

3. such records must be available for public inspection.

^{*} M.G.L. c. 48, § 13 provides in part:

^{1.} such permits may not be granted for more than two days from the date of issue, and

^{2.} a written record must be maintained for each permit including the date of permit issuance, name and address of the person receiving the permit including the location and type of materials to be burned, and

7.08: U Incinerators

(1) <u>General</u>.

(a) No person shall cause, suffer, allow, or permit the construction or substantial reconstruction or alteration of any incinerator for which:

- 1. the design for construction or substantial reconstruction or alteration thereof, and
- 2. the Standard Operating Procedure have not been approved by the Department in writing.

(b) No person shall sell or distribute for sale any special incinerator or modular incinerator, for installation or use within the District, the design and Standard Operating Procedure for which have not been approved in writing by the Department or certification of said approval has not been given by the person selling or distributing the incinerator to the person to whom the sale or distribution is made.

(c) No person shall cause, suffer, allow, or permit the burning of refuse or any other material in any incinerator in a manner that is not in conformance with a Standard Operating Procedure (for the incinerator) that has been approved by the Department in writing.

(d) No person shall cause, suffer, allow, or permit the burning of refuse or any other material in any incinerator, other than a municipal incinerator, which is of a design that has not been approved by the Department in writing.

(e) No person shall cause, suffer, allow, or permit the burning of refuse or any other material in an incinerator at a specific site location that, in the opinion of the Department, is likely to cause or contribute to a condition of air pollution and when the person responsible for the operation of the incinerator has been notified of said opinion.

(f) 310 CMR 7.08(1)(c) and 7.08(1)(d) are subject to the enforcement provisions specified in 310 CMR 7.52, insofar as they pertain to domestic incinerators.

(g) No person shall cause, suffer, allow, or permit emissions from any incinerator of any particles that have a dimension greater than 100 microns. (Be referred to 310 CMR 7.06(2).)
(h) The approval, referred to in 310 CMR 7.08(1)(a) through (d), shall be obtained pursuant to 310 CMR 7.02(3) and 7.02(5).

(2) Municipal Waste Combustors.

(a) <u>Site Assignment</u>. No person shall, allow, or permit the construction, substantial reconstruction, alteration or operation of a municipal waste combustor unit on a site which has not received a site assignment in accordance with M.G.L. c. 111, § 150A.

(b) <u>Purpose</u>. The purpose of 310 CMR 7.08(2) is to provide emission limitations and compliance schedules for the control of certain designated pollutants from Municipal Waste Combustors in accordance with sections 111(d) and 129 of the Clean Air Act.

(c) <u>Definitions</u>. The definitions found in 310 CMR 7.00 apply to 310 CMR 7.08(2) unless otherwise defined in 310 CMR 7.08(2). The following words and phrases shall have the following meanings as they appear in 310 CMR 7.08(2).

<u>CALENDAR QUARTER</u> means any consecutive three-month period (nonoverlapping) beginning on January 1st, April 1st, July 1st or October 1st.

CALENDAR YEAR means any period starting January 1st and ending on December 31st.

<u>CHIEF FACILITY OPERATOR</u> means the person in direct charge and control of the operation of a municipal waste combustor and who is responsible for daily on-site supervision, technical direction, management, and overall performance of the facility.

<u>CLEAN WOOD</u> means untreated wood or untreated wood products including clean untreated lumber, tree stumps (whole or chipped), and tree limbs (whole or chipped). Clean wood does not include yard waste, or construction, renovation, and demolition wastes (including, but not limited to, railroad ties and telephone poles).

<u>CONTINUOUS BURNING</u> means the continuous, semicontinuous, or batch feeding of municipal solid waste for purposes of waste disposal, energy production, or providing heat to the combustion system in preparation for waste disposal or energy production. The use of municipal solid waste solely to provide thermal protection of the grate or hearth during a startup period, when municipal solid waste is not being fed to the grate, is not considered to be continuous burning.

<u>CONTINUOUS EMISSION MONITORING SYSTEM</u> means a monitoring system for continuously measuring the emissions of a pollutant from a municipal waste combustor unit.

DIOXIN/FURAN means tetra- through octa-chlorinated dibenzo-p-dioxins and dibenzofurans.

dscm means dry standard cubic meter.

<u>FIRST CALENDAR HALF</u> means the period starting on January 1st and ending on June 30th in any year.

<u>FOUR-HOUR BLOCK AVERAGE or 4-HOUR BLOCK AVERAGE</u> means the average of all hourly emission concentrations when the affected facility is operating and combusting municipal solid waste, measured over a four-hour period of time from 12:00 A.M. to 4:00 A.M., 4:00 A.M. to 8:00 A.M., 8:00 A.M. to 12:00 P.M., 12:00 P.M. to 4:00 P.M., 4:00 P.M. to 8:00 P.M., or 8:00 P.M. to 12:00 A.M.

LARGE MUNICIPAL WASTE COMBUSTOR UNIT means a municipal waste combustor unit with a capacity greater than 250 tons/day of municipal solid waste.

<u>MASS BURN REFRACTORY MUNICIPAL WASTE COMBUSTOR</u> means a field-erected combustor that combusts municipal solid waste in a refractory wall furnace. Unless otherwise specified, this includes combustors with a cylindrical rotary refractory wall furnace.

<u>MASS BURN WATERWALL MUNICIPAL WASTE COMBUSTOR</u> means a field-erected combustor that combusts municipal solid waste in a waterwall furnace.

<u>MATERIALS SEPARATION PLAN</u> means a plan that identifies a program within a given service area, to separate mercury, other toxic components or toxic precursors from municipal solid waste prior to combustion in order to make the separated materials available for recycling and/or remove the toxic components or their toxic precursors for proper management. A materials separation plan shall include goals and timetables for attaining the goals. It may include, but is not limited to, such elements as: centralized drop-off facilities, buy-back or deposit-return incentives, curbside collection programs, financial incentives to municipalities in the service area for collection programs, technical assistance programs for municipalities, institutions and/or businesses within the service area, and personnel to support any such programs.

MAXIMUM DEMONSTRATED MUNICIPAL WASTE COMBUSTOR UNIT LOAD means the highest 4-hour arithmetic average municipal waste combustor unit load achieved during four consecutive hours during the most recent dioxin/furan stack test demonstrating compliance with the applicable limit for municipal waste combustor organics specified under 310 CMR 7.08(2)(f)(2): *Table 2*.

MAXIMUM DEMONSTRATED PARTICULATE MATTER CONTROL DEVICE <u>TEMPERATURE</u> means the highest four-hour arithmetic average flue gas temperature measured at the particulate matter control device inlet during four consecutive hours during the most recent dioxin/furan stack test demonstrating compliance with the applicable limit for municipal waste combustor organics specified under 310 CMR 7.08(2)(f)(2): *Table 2*.

MODIFICATION or MODIFIED MUNICIPAL WASTE COMBUSTOR UNIT means a municipal waste combustor unit to which changes have been made if the cumulative cost of the changes, over the life of the unit, exceed 50% of the original cost of construction and installation of the unit (not including the cost of any land purchased in connection with such construction or installation) updated to current costs; or any physical change in the municipal waste combustor unit or change in the method of operation of the unit for which standards have been established under the Clean Air Act, § 129 or § 11. Whether there is an increase in the amount of any air pollutant emitted by the unit shall be determined at 100% physical load capability and downstream of all air pollution control devices, with no consideration given for load restrictions based on permits or other nonphysical operational restrictions.

<u>MUNICIPAL SOLID WASTE or MUNICIPAL TYPE SOLID WASTE</u> means household, commercial/retail, and/or institutional waste. Household waste includes material discarded by single and multiple residential dwellings, hotels, motels, and other similar permanent or temporary housing establishments or facilities. Commercial/retail waste includes material discarded by stores, offices, restaurants, warehouses, nonmanufacturing activities at industrial facilities, and other similar establishments or facilities. Institutional waste includes material discarded by schools, nonmedical waste discarded by hospitals, material discarded by nonmanufacturing activities at prisons and government facilities, and material discarded by other similar establishments or facilities. Household, commercial/retail, and institutional waste does not include used oil; sewage sludge; wood pallets; construction, renovation, and demolition waste (which includes, but is not limited to, railroad ties and telephone poles); clean wood; industrial process or manufacturing waste; medical waste; or motor vehicles (including motor vehicle parts or vehicle fluff). Household, commercial/retail, and institutional waste includes:

- (a) yard waste; and
- (b) refuse-derived fuel.

<u>MUNICIPAL WASTE COMBUSTOR or MUNICIPAL WASTE COMBUSTOR UNIT OR</u> <u>UNIT</u> means any setting or equipment that combusts solid, liquid, or gasified municipal solid waste including, but not limited to, field-erected incinerators (with or without heat recovery), modular incinerators (starved-air or excess-air), boilers (*i.e.*, steam generating units), furnaces (whether suspension-fired, grate-fired, mass-fired, air curtain incinerators, or fluidized bed-fired), and pyrolysis/combustion units. Municipal waste combustors units do not include pyrolysis/combustion units located at a plastics/rubber recycling unit as specified in 310 CMR 7.08(2). Municipal waste combustors do not include internal combustion engines, gas turbines, or other combustion devices that combust landfill gases collected by landfill gas collection systems.

The boundaries of a municipal solid waste combustor are defined as follows. The municipal waste combustor unit includes, but is not limited to, the municipal solid waste fuel feed system, grate system, flue gas system, bottom ash system, and the combustor water system. The municipal waste combustor boundary starts at the municipal solid waste pit or hopper and extends through:

(a) The combustor flue gas system, which ends immediately following the heat recovery equipment or, if there is no heat recovery equipment, immediately following the combustion chamber;

(b) The combustor bottom ash system, which ends at the truck loading station or similar ash handling equipment that transfers the ash to final disposal, including all ash handling systems that are connected to the bottom ash handling system; and

(c) The combustor water system, which starts at the feed water pump and ends at the piping exiting the steam drum or superheater. The municipal waste combustor unit does not include air pollution control equipment, the stack, water treatment equipment, or the turbine generator set.

<u>MUNICIPAL WASTE COMBUSTOR ACID GASES</u> means all acid gases emitted in the exhaust gases from municipal waste combustor units including, but not limited to, sulfur dioxide and hydrogen chloride gases.

<u>MUNICIPAL WASTE COMBUSTOR METALS</u> means metals and metal compounds emitted in the exhaust gases from municipal waste combustor units.

<u>MUNICIPAL WASTE COMBUSTOR ORGANICS</u> means organic compounds emitted in the exhaust gases from municipal waste combustor units and includes tetra- through octachlorinated dibenzo-p-dioxins and dibenzofurans.

<u>MUNICIPAL WASTE COMBUSTOR PLANT</u> means one or more municipal waste combustor units at the same facility for which construction was commenced on or before September 20, 1994.

<u>MUNICIPAL WASTE COMBUSTOR UNIT CAPACITY</u> means the maximum charging rate of a municipal waste combustor unit expressed in tons per day of municipal solid waste combusted, calculated according to the procedures under 40 CFR 60.58b(j) as last amended May 10, 2006. 40 CFR 60.58b(j) includes procedures for determining municipal waste combustor unit capacity for continuous and batch feed municipal waste combustors.

<u>MUNICIPAL WASTE COMBUSTOR UNIT LOAD</u> means the steam load of the municipal waste combustor unit measured as specified in 40 CFR 60.58b(i)(6) as last amended May 10, 2006.

<u>PARTICULATE MATTER</u> means total particulate matter emitted from municipal waste combustor units measured as specified in 40 CFR, Part 60: *Appendix A, Reference Method 5*.

<u>PLASTICS/RUBBER RECYCLING UNIT</u> means an integrated processing unit where plastics, rubber, and/or rubber tires are the only feed materials (incidental contaminants may be included in the feed materials) and they are processed into a chemical plant feedstock or petroleum refinery feedstock, where the feedstock is marketed to and used by a chemical plant or petroleum refinery as input feedstock. The combined weight of the chemical plant feedstock and petroleum refinery feedstock produced by the plastics/rubber recycling unit on a calendar quarter basis shall be more than 70% of the combined weight of the plastics, rubber, and rubber tires processed by the plastics/rubber recycling unit may originate from the separation or diversion of plastics, rubber, or rubber tires from MSW or industrial solid waste, and may include manufacturing scraps trimmings, and off-specification plastics, rubber, and rubber tire discards. The plastics, rubber, and rubber tire feed materials to the plastics (*e.g.*, paper labels on plastic bottles, metal rings on plastic bottle caps, *etc.*)

<u>POTENTIAL HYDROGEN CHLORIDE EMISSION CONCENTRATION</u> means the hydrogen chloride emission concentration that would occur from combustion of municipal solid waste in the absence of any emission controls for municipal waste combustor acid gases.

<u>POTENTIAL MERCURY EMISSION CONCENTRATION</u> means the mercury emission concentration that would occur from combustion of municipal solid waste in the absence of any mercury emissions control.

<u>POTENTIAL SULFUR DIOXIDE EMISSIONS</u> means the sulfur dioxide emission concentration that would occur from combustion of municipal solid waste in the absence of any emission controls for municipal waste combustor acid gases.

<u>RECONSTRUCTION</u> means rebuilding a municipal waste combustor unit for which the reconstruction commenced after June 19, 1996, and the cumulative costs of the construction over the life of the unit exceed 50% of the original cost of construction and installation of the unit (not including any cost of land purchased in connection with such construction or installation) updated to current costs (current dollars).

<u>REFRACTORY UNIT OR REFRACTORY WALL FURNACE</u> means a combustion unit having no energy recovery (*e.g.*, *via* a waterwall) in the furnace (*i.e.*, radiant heat transfer section) of the combustor.

<u>REFUSE-DERIVED FUEL</u> means a type of municipal solid waste produced by processing municipal solid waste through shredding and size classification. This includes all classes of refuse-derived fuel including, but not limited to, low-density fluff refuse-derived fuel, densified refuse-derived fuel and pelletized refuse-derived fuel.

<u>REFUSE-DERIVED FUEL STOKER</u> means a steam generating unit that combusts refusederived fuel in a semisuspension firing mode using air-fed distributors.

<u>SECOND CALENDAR HALF</u> means the period starting July 1st and ending on December 31st in any year.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

7.08: continued

<u>SHIFT SUPERVISOR</u> means the person who is in direct charge and control of the operation of a municipal waste combustor and who is responsible for onsite supervision, technical direction, management, and overall performance of the facility during an assigned shift.

<u>SMALL MUNICIPAL WASTE COMBUSTOR UNIT</u> means a municipal waste combustor unit with a municipal waste combustor unit capacity greater than 39 tons per day but equal to or less than 250 tons per day of municipal solid waste.

STANDARD CONDITIONS means a temperature of 20°C and a pressure of 101.3 kilopascals.

TOTAL MASS DIOXIN/FURAN OR TOTAL MASS means the total mass of tetra- through octa-chlorinated dibenzo-p-dioxins and dibenzofurans, as determined using 40 CFR, Part 60: *Appendix A, Reference Method 23*.

<u>TWENTY FOUR-HOUR DAILY AVERAGE OR 24-HOUR DAILY AVERAGE</u> means either the arithmetic mean or geometric mean (as specified) of all hourly emission concentrations when the affected unit is operating and combusting municipal solid waste measured over a 24-hour period between 12:00 A.M. and the 12:00 A.M.

<u>UNTREATED LUMBER</u> means wood or wood products that have been cut or shaped and include wet, air-dried, and kiln-dried wood products. Untreated lumber does not include wood products that have been painted, pigment-stained, or "pressure-treated". Pressure treating compounds include, but are not limited to, chromate copper arsenate, pentachlorophenol, and creosote.

<u>WATERWALL FURNACE</u> means a combustion unit having energy (heat) recovery in the furnace (*i.e.*, radiant heat transfer section) of the combustor.

<u>YARD WASTE</u> means grass, grass clippings, bushes, and shrubs that are generated by residential, commercial/retail, institutional, and/or industrial sources as part of maintenance activities associated with yards or other private or public lands. Yard waste does not include construction, renovation, and demolition wastes. Yard waste does not include clean wood.

(d) <u>Designated Pollutants and Operating Practices</u>. 310 CMR 7.08(2) establishes requirements for the following municipal waste combustor operating practices, pollutants, opacity and fugitive ash:

- 1. Operating Practices (Carbon Monoxide (CO), Flue Gas Temp., Load Level)
- 2. Metals (Mercury (Hg), Lead (Pb), Cadmium (Cd))
- 3. Particulate Matter (PM)
- 4. Opacity
- 5. Organics (Dioxin/Furan)
- 6. Acid Gases (Sulfur Dioxide (SO₂), Hydrogen Chloride (HCl))
- 7. Nitrogen Oxides (NO_x)
- 8. Fugitive Ash Emissions
- (e) Applicability.

1. <u>Large Municipal Waste Combustor Units</u>. 310 CMR 7.08(2) applies in its entirety to any person who owns, leases, operates or controls a large municipal waste combustor unit. Applicable requirements and limitations contained in 310 CMR 7.08(2) shall not supersede, relax or eliminate any more stringent conditions or requirements (*e.g.*, emission limitation(s), testing, recordkeeping, reporting, or monitoring requirements) established by regulation or contained in a facility's previously issued source specific plan approval(s) or emission control plan(s).

2. Other Approvals or Permits - A plan approval under 310 CMR 7.02(2) is not required in order to implement the requirements for 310 CMR 7.08(2) unless construction, substantial reconstruction or alterations are planned at the facility which are not required under the requirements at 310 CMR 7.08(2). If the facility has a final operating permit pursuant to 310 CMR 7:00: *Appendix C*, the operating permit will be modified upon approval of the emission control plan, in accordance with the procedures in 310 CMR 7.00: *Appendix C*(8). No additional application or fee is necessary to modify the operating permit at the same time the emission control plan is approved. If the facility does not have a final operating permit, the facility must amend its operating permit application to include the approved emission control plan.

- (f) <u>Applicable Requirements</u>.
 - 1. Operating Practices.

a. No person subject to 310 CMR 7.08(2) shall:

i. cause, suffer, allow or permit the discharge into the atmosphere from a municipal waste combustor unit any gases that contain carbon monoxide in excess of the emission limits specified in 310 CMR 7.08(2)(f)2.: *Table 1*;

ii. cause, suffer, allow or permit a municipal waste combustor unit to operate at a load level greater than 110% of the maximum demonstrated municipal waste combustor unit load calculated in four-hour block arithmetic averages, measured during the most recent dioxin/furan compliance test in which compliance is achieved; and

iii. cause, suffer, allow or permit a municipal waste combustor unit to operate at a temperature, measured at the particulate matter control device inlet, exceeding 17° C (30° F) above the maximum demonstrated particulate matter control device temperature, calculated in four-hour block arithmetic averages, measured during the most recent dioxin/furan compliance test in which compliance is achieved.

b. During any nine-month dioxin/furan compliance test, quarterly mercury compliance test, or nine-month mercury compliance test, and the two weeks preceding each nine-month dioxin/furan compliance test, quarterly mercury compliance test, or nine-month mercury compliance test, municipal waste combustor unit load limit, average mass carbon feed rate limit and particulate matter control device temperature limitations are not applicable.

c. The requirements of 310 CMR 7.08(2)(f)1.a.ii. and iii. may be waived, if prior approval is granted by the Department, for the purposes of evaluating system performance, testing new technology or control technologies, diagnostic testing, or related activities for the purpose of improving facility performance provided that there is an improvement in controlling air pollution, or advancing the state-of-the-art technology for controlling facility emissions.

2. <u>Metals, Organics and Acid Gases</u>. No person subject to 310 CMR 7.08(2) shall cause, suffer, allow or permit the discharge into the atmosphere from a municipal waste combustor unit any gases that contain metals, opacity, organics, particulate matter or acid gases in excess of the emission limits specified in 310 CMR 7.08(2)(f)2.: *Table 2*.

TABLE 1. MUNICIPAL WASTE COMBUSTOR OPERATING PRACTICES

Municipal Waste Combustor Technology	Carbon Monoxide Emissions Level (parts per million by volume) ^a	Averaging Time ^b	
Mass Burn Waterwall	100	four-hour	
Refuse-derived Fuel Stoker	200	24-hour	

^a Measured at the combustor outlet in conjunction with a measurement of oxygen concentration, corrected to 7% oxygen, dry basis. Calculated as an arithmetic average.

^b Averaging times are four-hour block or 24-hour daily arithmetic averages.

a

TABLE 2. EMISSION LIMITS FOR MUNICIPAL WASTE COMBUSTOR UNITS

	Emission Limits For Large MWC Units ^a
Particulate Matter (PM) Opacity	25 mg/dscm 10% (six-minute average)
METALS:	
Cadmium (Cd) Lead (Pb) Mercury (Hg)	0.035 mg/dscm 0.400 mg/dscm 0.028 mg/dscm - average of compliance tests conducted in any rolling 12-month period 0.050 mg/dscm - average of test runs in any quarterly or 9-month compliance test
ACID GASES:	
Sulfur Dioxide (SO ₂)	29 ppmv or 75% reduction by weight or volume, whichever is less stringent. Compliance is based on a 24-hour geometric mean.
Hydrogen Chloride (HCl)	29 ppmv or 95% reduction by weight or volume, whichever is less stringent.
ORGANICS: (Total Mass)	
Dioxin/Furan with Electrostatic precipitator (ESP)	35 ng/dscm
Dioxin/Furan with Fabric Filter (FF)	30 ng/dscm

Corrected to 7% oxygen (dry basis).

3. <u>Nitrogen Oxides</u>. No person subject to 310 CMR 7.08(2) shall cause, suffer, allow or permit the discharge into the atmosphere from a municipal waste combustor unit any gases that contain nitrogen oxides in excess of the emission limits specified in 310 CMR 7.08(2)(f)3.: *Table 3*. Emission Reduction Credits (ERCs) generated under 310 CMR 7.00: *Appendix B*(3) may be used to comply with the requirements contained in Table 3.

TABLE 3. NITROGEN OXIDES EMISSION LIMITS FOR LARGE MUNICIPAL WASTE COMBUSTOR UNITS

Municipal Waste Combustor Technology	NO _x Emission Limit (Part	Averaging Time ^b	
	Until one year after issuance of ECP approval under 310 CMR 7.08(2)(j))1., but no later than March 9, 2020	Beginning one year after issuance of ECP approval under 310 CMR 7.08(2)(j)1., but no later than March 10, 2020	
Mass Burn Waterwall	205	150	24-hour
Refuse-derived Fuel Stoker	250	146	24-hour

^a Corrected to 7% oxygen, dry basis.

^b Averaging times are 24-hour daily arithmetic averages.

4. <u>Nitrogen Oxides Emission Averaging Plan</u>. A person subject to 310 CMR 7.08(2) may elect to implement a nitrogen oxides emissions averaging plan for the units located at the same municipal waste combustor plant. Municipal waste combustor units subject to 40 CFR, Part 60, Subpart Ea or Eb shall not be included in the emissions averaging plan. The units included in the nitrogen oxides emissions averaging plan must be identified in the annual report specified in 310 CMR 7.08(2)(i), prior to implementing the averaging plan. The units at the plant included in the averaging plan may be redesignated each calendar year.

a. To implement an emissions averaging plan, the average daily (24-hour) nitrogen oxides emission concentration level for gases discharged from units included in the emissions averaging plan shall not exceed the limits specified in Table 4.

TABLE 4. NITROGEN OXIDES EMISSION LIMITS FOR UNITS INCLUDED IN AN EMISSIONS AVERAGING PLAN

Municipal Waste Combustor Technology	NO _x Emission Limit (Parts per million by volume) ^a	Averaging Time ^b
Mass Burn Waterwall	150	24-hour
Refuse-derived Fuel Stoker	146	24-hour

Corrected to 7% oxygen, dry basis.

Averaging times are 24-hour daily arithmetic averages.

b. Under an emissions averaging plan, the average daily nitrogen oxides emission limits specified in Table 4 shall be calculated using equation (1). Units that are offline shall not be included in calculating the average daily nitrogen oxides emission level.

$$No_{x^{24-hr}} = \begin{pmatrix} h \\ \Sigma (NO_{xi})(S_i) \\ I = 1 \\ h \\ \Sigma (S_i) \\ I = 1 \end{pmatrix}$$
(1)

where:

No_{x24-hr} = 24-hour daily average nitrogen oxides emission concentration level for the emissions averaging plan (ppmv, corrected to 7% oxygen).

$$No_{xi}$$
 = 24-hour daily average nitrogen oxides emission concentration level for unit i (ppmv, corrected to 7% oxygen).

S, maximum demonstrated municipal waste combustor unit load for unit i (pounds per hour steam or feedwater flow as determined in the most recent dioxin/furan performance test).

h total number of units included in the daily emissions average.

> c. For any day in which any unit included in an emissions averaging plan is offline, the owner or operator of the municipal waste combustor plant must still demonstrate compliance with the applicable limits specified in Table 4 according to either 310 CMR 7.08(2)(f)4.d., or 310 CMR 7.08(2)(f)4.e., f. and g.

> d. Compliance with the applicable limits specified in Table 4 shall be demonstrated using the averaging procedure specified in 310 CMR 7.08(2)(f)4.b.

5. <u>Ammonia</u>. No later than the dates specified in the emission control plan approval issued by the Department under 310 CMR 7.08(2)(j), any person subject to 310 CMR 7.08(2) utilizing ammonia or urea for NO_x control shall:

a. conduct ammonia optimization testing;

b. submit a report to the Department correlating NOx emissions and ammonia slip;c. propose an ammonia emissions limit that the Department will review and may

modify before incorporating in the unit's approval, pursuant to the procedures in 310 CMR 7.08(2)(j)7; and

d. if using an ammonia continuous emission monitoring system to demonstrate compliance, obtain, at a minimum, valid hourly averages based on at least two data points per hour, for at least 90% of the operating hours per calendar quarter and 95% of the operating hours per calendar year that the affected facility is combusting municipal solid waste.

6. <u>Fugitive Ash</u>. No person subject to 310 CMR 7.08(2) shall cause, suffer, allow or permit the discharge into the atmosphere of any visible emissions of combustion ash from an ash conveying system (including transfer points) in excess of 5% of the observation period (nine minutes per three-hour period). This emission limit does not cover visible emissions discharged inside buildings or enclosures of ash conveying systems; however the emission limit does apply to visible emissions discharged to the atmosphere from buildings or enclosures of ash conveying systems. 310 CMR 7.08(2)(f)6. does not apply during maintenance and repair of ash conveying systems. Maintenance and repair of the ash conveying systems must be done in accordance with best management practices.

7. <u>Operator Training and Certification</u>. Any person subject to 310 CMR 7.08(2) shall implement the following municipal waste combustor operator training and certification requirements.

a. shall have each chief facility operator and shift supervisor obtain and maintain an Operator Certificate issued by the American Society of Mechanical Engineers (ASME).

b. shall not allow the municipal waste combustor unit to be operated at any time unless one of the following persons is on duty: A chief facility operator or a shift supervisor who has obtained an Operator Certificate. (A Provisional Certificate is acceptable provided the shift supervisor is scheduled to obtain an Operator Certificate in accordance with 310 CMR 7.08(2)(f). A provisionally certified operator who is newly promoted or recently transferred to a shift supervisor position or a chief facility operator position at the municipal waste combustion unit may perform the duties of the certified chief facility operator or certified shift supervisor without notice to, or approval by, the Department for up to six months before taking the ASME QRO certification exam.) If one of the persons listed above must leave the municipal waste combustor plant during his or her operating shift, a provisionally certified chief facility operator who is onsite at the municipal waste combustor plant may fulfill these requirements. Depending on the length of time that a certified chief facility operator and certified shift supervisor are away, the owner or operator of the affected facility must meet the following criteria:

i. When the certified chief facility operator and certified shift supervisor are both off site for 12 hours or less, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor.

ii. When the certified chief facility operator and certified shift supervisor are off site for more than 12 hours, but for two weeks or less, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor without notice to, or approval by, the Department. However, the owner or operator of the affected facility must record the period when the certified chief facility operator and certified shift supervisor are off-site and include that information in the annual report as specified under 310 CMR 7.08(2)(i)1.h.

iii. When the certified chief facility operator and certified shift supervisor are off site for more than two weeks, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor without approval by the Department. However, the owner or operator of the affected facility shall notify the Department in writing no later than three working days after the two week period. This initial notification shall state the cause of the absence and the actions that are being taken by the owner or operator of the facility to ensure that a certified chief facility operator or certified shift supervisor is on site as expeditiously as practicable.

iv. When the certified chief facility operator and certified shift supervisor are off site for more than two weeks, and no other certified operator is on site, the owner or operator of the affected facility shall submit a status report and corrective action summary to the Department every four weeks, beginning four weeks following the initial notification, demonstrating that a good faith effort is being made to ensure that a certified chief facility operator or certified control room shift supervisor is on site. If the Department provides notice that the status report or corrective action summary is disapproved, the municipal waste combustion unit may continue operation for 90 days, but then must cease operation. If corrective actions are taken in the 90-day period such that the Department withdraws the disapproval, municipal waste combustion unit operation may continue.

c. shall have all chief facility operators, shift supervisors, and control room operators who have not obtained an Operator Certificate from ASME complete the National Technical Information Service - "EPA Municipal Waste Combustor Operating Course."

d. shall establish a training program to review the operating manual with each person who has responsibilities affecting the operation of an affected municipal waste combustor unit including, but not limited to, chief facility operators, shift supervisors, control room operators, ash handlers, maintenance personnel, and crane/load handlers. The operating manual shall address at a minimum the following:

i. A summary of all the applicable requirements in 310 CMR 7.08(2);

ii. Basic combustion theory applicable to a municipal waste combustor unit;

iii. Procedures for receiving, handling, and feeding municipal solid waste;

iv. Municipal waste combustor unit startup, shutdown, and malfunction procedures;

v. Procedures for maintaining proper combustion air supply levels;

vi. Procedures for operating the municipal waste combustor unit within the requirements established under 310 CMR 7.08(2);

vii. Procedures for responding to periodic upset or off-specification conditions; viii. Procedures for minimizing particulate matter carryover;

ix. Procedures for handling ash;

x. Procedures for monitoring municipal waste combustor unit emissions; andxi. Reporting and recordkeeping procedures.

e. shall make available to the Department for inspection upon request all the operating manual and records of training.

f. shall be in compliance with all training and certification requirements specified in 310 CMR 7.08(2)(f)?. by six months after the date of start up or August 21, 1999. whichever is later.

8. Materials Separation Plan.

a. within six months from the date that a Material Separation Plan Guidance Document ("guidance document") is provided by the Department, any person subject to 310 CMR 7.08(2) shall submit a materials separation plan for the removal of mercury-bearing products or other specific toxic components or toxic precursors as designated by the Department pursuant to 310 CMR 7.08(2)(f)8.e. The material separation plan shall be developed in accordance with the guidance document and shall detail the minimum requirements for compliance with the materials separation plan.

b. Upon Department draft approval of the materials separation plan, the Department shall publish a notice of public comment in accordance with M.G.L. c. 30A detailing the proposed materials separation plan. The Department shall allow for a 30-day public comment period following the published notice. The Department will approve or deny the materials separation plan after the close of the public comment period. Following Department approval of the materials separation plan, the person subject to 310 CMR 7.08(2) must implement the materials separation plan.

c. Prior to the implementation of the materials separation plan, the person subject to 310 CMR 7.08(2) shall determine the uncontrolled mercury concentration in the flue gas for four consecutive quarters. The Department may require subsequent testing.

d. One year following the date of implementation of the materials separation plan and every year after, the person subject to 310 CMR 7.08(2) shall submit a progress report to the Department documenting the effective implementation of the materials separation plan. The Department may require modifications to the materials separation plan if necessary.

e. The Department may require that material separation plans address other specific toxic components or toxic precursors, provided that the Department first conducts a formal rulemaking pursuant to M.G.L. c. 30A to require persons subject to 310 CMR 7.08(2) to add such other toxic component or precursor to the material separation plan.

(g) <u>Compliance and Performance Testing</u>. Any person subject to 310 CMR 7.08(2) shall comply with the provisions of 40 CFR 60.58b: *Compliance and Performance Testing*, as last amended May 10, 2006, the provisions of which are hereby incorporated by reference. Compliance with the applicable requirements as set forth in 310 CMR 7.08(2)(f) shall be determined in accordance with 40 CFR 60.58b, except as provided under 310 CMR 7.08(2)(g)1., 2., 3., 5. and 6. The initial performance test must be completed within 180 days after the final compliance date.

1. <u>Dioxin/Furan</u>. Following the date of the initial performance test for dioxin/furans, any person subject to 310 CMR 7.08(2) shall conduct compliance tests for dioxin/furan emissions according to one of the schedules specified in 310 CMR 7.08(2)(g)1.a. through e.:

a. Following the date of the initial performance test, compliance testing for dioxin/furan emissions shall be conducted on all municipal waste combustor unit(s) on a nine-month basis; or

b. For municipal waste combustor unit(s) where all compliance tests for all unit(s) over a 27 month period indicate that dioxin/furan emissions are less than or equal to seven nanograms per dry standard cubic meter total mass (ng/dscm), corrected to 7% oxygen, the person subject to 310 CMR 7.08(2) may elect to conduct compliance tests for one unit every nine months. At a minimum, a compliance test for dioxin/furan emissions shall be conducted every nine months following the previous compliance test for one unit at the municipal waste combustor plant. Every nine months a different unit at the municipal waste combustor plant shall be tested, and the units at the plant shall be tested in sequence (e.g., unit 1, unit 2, unit 3, as applicable). The person subject to 310 CMR 7.08(2) may continue to conduct compliance testing on only one unit per nine-month basis so long as the dioxin/furan emission limits remain less than or equal to 7 ng/dscm @ $7\% 0_2$. If any nine-month compliance test indicates dioxin/furan emissions greater than the specified limit, compliance tests shall thereafter be conducted on all units at the plant every nine months until and unless all nine-month compliance test for all units at the plant over a 27-month period indicate dioxin/furan emissions less than or equal to the 7 ng/dscm @ 7% O₂.

c. Any person subject to 310 CMR 7.08(2) who elects to follow the compliance testing schedule specified in 310 CMR 7.08(2)(g)l.b., shall follow the procedures specified in 310 CMR 7.08(2)(i)1. for reporting the selection of this schedule.

d. Municipal waste combustor units where carbon injection (or equivalent) is used to comply with the dioxin/furan emission limits specified in 310 CMR 7.08(2)(f)2. or the dioxin/furan emission limit specified in 310 CMR 7.08(2)(g)l.b. shall follow the procedures specified in 40 CFR 60.58b(m) as last amended May 10, 2006, for measuring and calculating the eight-hour block average carbon (or equivalent) usage rate.

e. Any person subject to 310 CMR 7.08(2) electing continuous automated sampling of dioxin/furan emissions as an alternative to manual reference method sampling shall comply with the provisions of 40 CFR 60.58b(g)(10), 40 CFR 60.58b(p) and 40 CFR 60.58b(q), as last amended May 10, 2006.

Mercury. Following the date that the initial performance test for mercury is 2. completed, compliance testing for mercury shall be conducted on all municipal waste combustor unit(s) on a quarterly basis. Compliance with the emissions limit specified in 310 CMR 7.08(2)(f)2. shall be based on the average of four quarterly compliance tests per rolling 12 months but shall not exceed 0.050 mg/dscm in any quarterly test. If compliance with the mercury emission limit has been achieved in each quarter for eight consecutive quarters, then the person subject to 310 CMR 7.08(2) may elect to perform compliance testing on a nine-month basis. Any municipal waste combustor unit(s) which cannot achieve compliance with the emission limitation in 310 CMR 7.08(2)(f)2. during the nine-month compliance test shall resume quarterly compliance testing as specified in 310 CMR 7.08(2)(g)2. Any person subject to 310 CMR 7.08(2) electing continuous monitoring of mercury emissions as an alternative to manual reference method sampling shall comply with the provisions of 40 CFR 60.58b(d)(4), 40 CFR 60.58b(n) and 40 CFR 60.58b(o) as last amended May 10, 2006. Any person subject to 310 CMR 7.08(2) electing continuous automated sampling of mercury emissions as an alternative to manual reference method sampling shall comply with the provisions of 40 CFR 60.58b(d)(4), 40 CFR 60.58b(p) and 40 CFR 60.58b(q) as last amended May 10, 2006. Optimization Testing. Municipal waste combustor unit(s) which employ a carbon 3. injection (or equivalent) mercury emission control system shall conduct optimization tests. These tests will determine the optimum feed rate for the mercury emissions control apparatus by determining the carbon (or equivalent) feed rate at which the emissions of mercury are equal to or less than the applicable limit at 310 CMR 7.08(2)(f)2. The optimization test shall be conducted as follows:

a. The optimization tests shall be performed during the initial performance test, after a change in carbon (or equivalent), upon request by the Department, upon request by the person subject to 310 CMR 7.08(2) or annually if required under 310 CMR 7.08(2)(g)4.

b. If there are identical municipal waste combustor units at the municipal waste combustor plant, then optimization tests may be performed on one unit, and the resulting parameters applied to the other unit(s) which are identical to that unit at that plant.

c. Within 30 calendar days of the conclusion of any optimization test, any person subject to 310 CMR 7.08(2) shall submit to the Department for approval a proposed optimized carbon (or equivalent) feed rate which minimizes mercury emissions. An approvable feed rate is the feed rate such that a higher feed rate achieves insignificant additional reductions in mercury emissions compared to the amount of carbon (or equivalent) added. The carbon (or equivalent) feed rate approved by the Department shall be used to operate the carbon injection (or equivalent) mercury control system until the next optimization test is performed and the feed rate approved.

d. Any person owning or operating a municipal waste combustor unit where carbon injection (or equivalent) is used to comply with the mercury emission limits specified in 310 CMR 7.08(2)(f)2. or 310 CMR 7.08(2)(g)2. shall follow the procedures specified in 40 CFR 60.58b(m) as last amended May 10, 2006, for measuring and calculating the eight-hour block average carbon (or equivalent) usage rate.

- 4. (<u>Reserved</u>).
- 5. Continuous Emissions Monitoring Systems Data.

a. (Reserved)

b. Carbon monoxide CEMS in accordance with 40 CFR Part 60: *Appendix B*, Performance Specification 4 will satisfy the requirements in 310 CMR 7.08(2)(g).

6. <u>Compliance Testing Schedule</u>. Any person subject to 310 CMR 7.08(2) shall conduct compliance testing for all designated pollutants every nine months for each municipal waste combustor unit(s). Compliance testing for dioxin/furan and mercury shall be as specified in 310 CMR 7.08(2)(g)1. and 2.

7. Continuous Emissions Monitoring for Particulate Matter. In place of particulate matter testing with EPA Reference Method 5, any person subject to 310 CMR 7.08(2) may elect to install, calibrate, maintain, and operate a continuous emission monitoring system for monitoring particulate matter emissions discharged to the atmosphere and record the output of the system. Any person subject to 310 CMR 7.08(2) who elects to continuously monitor particulate matter emissions in place of testing shall comply with the requirements specified in 40 CFR 60.58b(c)(10)(i) through (xiv) as last amended May 10, 2006. Any person subject to 310 CMR 7.08(2) who elects to continuously monitor particulate matter emissions in place of testing is not required to complete performance testing for particulate matter and is not required to continuously monitor opacity as specified in 40 CFR 60.58b(c)(9) and (c)(8) as last amended May 10, 2006. 8. Continuous Emissions Monitoring for Cadmium and Lead. In place of cadmium and lead testing with EPA Reference Method 29, any person subject to 310 CMR 7.08(2) may elect to install, calibrate, maintain, and operate a continuous emission monitoring system for monitoring cadmium and lead emissions discharged to the atmosphere and record the output of the system according to the provisions of 40 CFR 60.58b(n) and (o) as last amended May 10, 2006.

9. <u>Continuous Emissions Monitoring for Hydrogen Chloride</u>. In place of hydrogen chloride testing with EPA Reference Method 26 or 26A, any person subject to 310 CMR 7.08(2) may elect to install, calibrate, maintain, and operate a continuous emission monitoring system for monitoring hydrogen chloride emissions discharged to the atmosphere and record the output of the system according to the provisions of 40 CFR 60.58b(n) and (o) as last amended May 10, 2006.

(h) <u>Recordkeeping</u>. Any person subject to 310 CMR 7.08(2) shall comply with the recordkeeping requirements of 40 CFR 60.59b(d) as last amended May 10, 2006, the provisions of which are hereby incorporated by reference, and maintain records including, but not limited to, the information specified in 310 CMR 7.08(2)(h), as applicable, for each municipal waste combustor unit. All records shall be retained at the facility for at least five years.

1. The calendar date of each record.

2. The emission concentrations and operating parameters measured using continuous monitoring systems. The measurements specified below shall be recorded and shall be available for submittal to the Department or for onsite review by an inspector:

a. All six-minute average opacity levels as specified under 40 CFR 60.58b(c) as last amended May 10, 2006, including the highest level measured.

b. All one hour average sulfur dioxide emission concentrations as specified under 40 CFR 60.58b(e) as last amended May 10, 2006.

c. All one hour average nitrogen oxides emission concentrations as specified under 40 CFR 60.58b(h) as last amended May 10, 2006.

d. All one hour average carbon monoxide emission concentrations, municipal waste combustor unit load measurements, and particulate matter control device inlet temperatures as specified under 40 CFR 60.58b(i) as last amended May 10, 2006.

e. All 24-hour daily geometric average sulfur dioxide emission concentrations and all 24-hour daily geometric average percent reductions in sulfur dioxide emissions as applicable, as specified under 40 CFR 60.58b(e) as last amended May 10, 2006, including the highest sulfur dioxide emission concentration level recorded.

f. All 24-hour daily arithmetic average nitrogen oxides emission concentrations, as specified under 40 CFR 60.58b(h) as last amended May 10, 2006, including the highest level recorded.

g. All four-hour block or 24-hour daily arithmetic average carbon monoxide emission concentrations, as applicable, as specified under 40 CFR 60.58b(I) as last amended May 10, 2006, including the highest level recorded.

h. All four-hour block arithmetic average municipal waste combustor unit load levels and particulate matter control device inlet temperature, as specified under 40 CFR 60.58b(i) as last amended May 10, 2006, including the highest level recorded.

i. As applicable, all one hour average and 24-hour daily (block) average particulate matter emissions concentrations, as specified under 40 CFR 60.58b(c) as last amended May 10, 2006, including the highest level recorded.

j. As applicable, all one hour average and 24-hour daily arithmetic average mercury, cadmium, lead or hydrogen chloride emissions concentrations, as specified under 40 CFR 60.58b(n), as last amended May 10, 2006, including the highest level recorded.

k. As applicable, all integrated two-week dioxin/furan and integrated 24-hour mercury emissions concentrations, as specified under 40 CFR 60.58b(p), as last amended May 10, 2006, including the highest level recorded.

3. Identification of the calendar dates when any of the average emission concentrations or emission percent reductions, opacity levels, or operating parameters recorded under 310 CMR 7.08(2)(h)2. exceed the applicable limits, with detailed specific reasons for such exceedances and a description of corrective actions taken.

4. For municipal waste combustor unites) that apply carbon (or equivalent) for mercury or dioxin/furan control, the following records:

a. The average carbon (or equivalent) mass feed rate (in lbs/hr) estimated as required under 40 CFR 60.58b(m)(1)(i) as last amended May 10, 2006, during the initial mercury performance test and all subsequent mercury compliance tests, with supporting calculations.

b. The average carbon (or equivalent) mass feed rate (in lbs/hr) estimated for each hour of operation as required under 40 CFR 60.58b(m)(1)(ii) as last amended May 10, 2006, during the initial dioxin/furan performance test and all subsequent dioxin/furan compliance tests, with supporting calculations.

c. The average carbon (or equivalent) mass feed rate (in lbs/hr) estimated for each hour of operation as required under 40 CFR 60.58b(m)(3)(ii) as last amended May 10, 2006, with supporting calculations.

d. The total carbon (or equivalent) usage for each calendar quarter estimated as specified under 40 CFR 60.58 b(m)(3) as last amended May 10, 2006, with supporting calculations.

e. The carbon (or equivalent) injection system operating parameter data for the parameter(s) that are the primary indicator(s) of carbon (or equivalent) feed rate, calculated as specified in 40 CFR 60.58b(m)(2) as last amended May 10, 2006.

5. Identification of the calendar dates and time penods for which the minimum number of hours of any of the data specified below have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken:

- a. Sulfur dioxide emissions data.
- b. Nitrogen oxides emissions data.
- c. Carbon monoxide emissions data.

d. Municipal waste combustor unit load data, including particulate matter control device inlet temperature data.

e. For any person subject to 310 CMR 7.08(2) who elects to continuously monitor particulate matter, cadmium, lead, mercury or hydrogen chloride emissions instead of using EPA manual test methods, particulate matter, cadmium, lead, mercury or hydrogen chloride emissions data.

f. For any person subject to 310 CMR 7.08(2) who elects to use continuous automated sampling systems for dioxins/furans or mercury instead of EPA manual test methods, dates and times when the sampling systems were not operating or were not collecting a valid sample.

6. Identification of each occurrence that sulfur dioxide, nitrogen oxides and, as applicable, particulate matter, cadmium, lead, mercury, hydrogen chloride or dioxin/furan emissions data, or operational data *(e.g., carbon monoxide emissions, unit load, and particulate matter control device temperature)* have been excluded from the calculation of average emission concentrations or parameters, along with detailed and specific reasons for excluding the data.

7. The results of daily drift tests and quarterly accuracy determinations for sulfur dioxide, nitrogen oxides, and carbon monoxide continuous emission monitoring systems, as required under 40 CFR, Part 60: *Appendix F*, Procedure 1. For any person who elects to continuously monitor or sample instead of using EPA manual test methods, the results of daily drift tests and quarterly accuracy determinations for particulate matter as required under 40 CFR 60: *Appendix F*, Procedure 2, the results of all quality evaluations, such as daily drift tests and periodic accuracy determinations for cadmium, lead, mercury or hydrogen chloride, specified in the approved site-specific performance evaluation test plan required by 40 CFR 60.58b(o)(5) as last amended May 10, 2006, and all continuous automated dioxin/furan or mercury sampling systems quality evaluations specified in the approved site-specific performance evaluation test plan required by 40 CFR 60.58b(q)(5) as last amended May 10, 2006.

8. Identification of each occurrence of a start-up, shut-down or malfunction, including the specific reasons for each occurrence, date, time, and unit involved. Average emissions concentrations or percent reductions, or operating parameters recorded under 310 CMR 7.08(2)(h)2., shall be recorded during start-up, shut-down or malfunction.

9. The results of the initial performance tests and all subsequent compliance tests conducted to determine compliance with the particulate matter, opacity, cadmium, lead, mercury, dioxin/furan, hydrogen chloride, and fugitive ash emission limits shall be recorded along with supporting calculations and submitted to the Department within 90 days after each such test.

10. For the initial dioxin/furan performance test and all subsequent dioxin/furan compliance tests recorded under 310 CMR 7.08(2)(h)9., the maximum demonstrated municipal waste combustor load and maximum particulate matter control device temperature (for each particulate matter control device) shall be recorded along with supporting calculations.

11. Records showing the names of the municipal waste combustor chief facility operator, shift supervisors, and control room operators who are certified by ASME (Operator Certification and Provisional Certification), including the dates of initial and renewal certifications and documentation of current certification. Records showing the names of the municipal waste combustor chief facility operator, shift supervisors, and control room operators who have completed the EPA municipal waste combustor operator training course if required. Records of when a certified operator is temporarily off site, pursuant to 310 CMR 7.08(2)(h)11.a. and b.

a. If the certified chief facility operator and certified shift supervisor are off-site for more than 12 hours, but for two weeks or less, and no other certified operator is onsite, record the dates that the certified chief facility operator and certified shift supervisor were off-site.

b. When all certified chief facility operators and certified shift supervisors are offsite for more than two weeks and no other certified operator is on-site, keep records of:

i. Time of day that all certified persons are off-site.

ii. The conditions that cause those people to be off-site.

iii. The corrective actions taken by the owner or operator of the affected facility to ensure a certified chief facility operator or certified shift supervisor is on-site as soon as practicable.

iv. Copies of the written reports submitted every four weeks that summarize the actions taken by the owner or operator of the affected facility to ensure that a certified chief facility operator or certified shift supervisor will be on-site as soon as practicable.

12. Records showing the names of the persons who have completed a review of the operating manual as required by 310 CMR 7.08(2)(f)7.d., including the date of the initial review and subsequent annual reviews.

13. For municipal waste combustor units that apply carbon (or equivalent) for mercury or dioxin/furan control:

a. Identification of the calendar dates when the average carbon (or equivalent) mass feed rates recorded under 310 CMR 7.08(2)(h)4.c. were less than either of the hourly carbon feed rates estimated during compliance tests for mercury or dioxin/furan emissions and recorded under 310 CMR 7.08(2)(h)4.a. or b., with reasons for such feed rates and a description of corrective actions taken.

b. Identification of the calendar dates when the carbon injection (or equivalent) system operating parameter(s) that are the primary indicator(s) of carbon mass feed rate (or equivalent) recorded under 310 CMR 7.08(2)(h)4.e., are below the level(s) estimated during the compliance tests as specified in 40 CFR 60.58b(m)(1)(i) and 60.58b(m)(1)(ii) as last amended May 10, 2006, with reasons for such occurrences and a description of corrective actions taken.

(i) <u>Reporting Requirements</u>. Any person subject to 310 CMR 7.08(2) shall submit an initial performance report as well as an annual report pursuant to 40 CFR 60.59b(g) as last amended May 10, 2006, the provisions of which are hereby incorporated by reference that includes, but is not limited to, the information specified in 310 CMR 7.08(2)(i)1., as applicable. Any person subject to 310 CMR 7.08(2) shall submit a semiannual report pursuant to 40 CFR 60.59b(h) as last amended May 10, 2006, the provisions of which are hereby incorporated by reference that includes, but is not limited to, the information specified in 310 CMR 7.08(2)(i)2. for any recorded pollutant or parameter that does not comply with the emission limits as set forth in 310 CMR 7.08(2)(i)2. In meeting the reporting requirements of 310 CMR 7.08(2)(i)1. and 310 CMR 7.08(2)(i)2., any person subject to 310 CMR 7.08(2) shall report the information in a format determined by the Department that is designed to be understandable and informative to the public. The information shall be submitted in written format and electronic format.

1. <u>Annual Reporting Requirements</u>.^a The information specified in 310 CMR 7.08(2)(i)l.a. through h. shall be reported:

a. 310 CMR 7.08(2)(h)2.a., e. through k. for the highest emission levels recorded.

b. 310 CMR 7.08(2)(h)4.a. and b.

c. 310 CMR 7.08(2)(h)5. and 6., including 40 CFR 60.59b(g)(1)(iv) and (v), as last amended May 10, 2006.

d. 310 CMR 7.08(2)(h)8. through 10.

e. Summary of 310 CMR 7 .08(2)(i)l.a. through d. for the previous year.

f. The performance evaluation of the continuous emission monitoring system using the applicable performance specifications in 40 CFR Part 60: *Appendix B*.

g. A notification of intent to begin the reduced dioxin/furan compliance testing schedule specified in 310 CMR 7.08(2)(g)l.b. during the following calendar year.

h. Documentation of periods when all certified chief facility operators and certified shift supervisors are off site for more than 12 hours.

2. <u>Semi-annual Reporting Requirements</u>^b. The information specified in 310 CMR 7.08(2)(i)2.a. through e. shall be reported:

a. 310 CMR 7.08(2)(h)2.a., e. through k. for each date recorded in 310 CMR 7.08(2)(h)3.

b. 310 CMR 7.08(2)(h)3.

- c. 310 CMR 7.08(2)(h)4.c.
- d. 310 CMR 7.08(2)(h)9.°
- e. 310 CMR 7.08(2)(h)13.

- ^b Semiannual reports shall be submitted according to the schedule specified: (1) If data reported in accordance with section 310 CMR 7.08(2)(i)2. were collected during the first calendar half, then the report shall be submitted on or before August 1st following the first calendar half; (2) If data reported in section 310 CMR 7.08(2)(i)2. were collected during the second calendar half, then the report shall be submitted on or before February 15th following the second calendar half.
- ^c Include only the reports which document emission levels that were above the applicable requirements and the corrective actions taken.

^a Annual reports shall be submitted no later than February 15th of each year following the calendar year in which the data were collected.

3. <u>Reporting Requirements for Optional Continuous Monitoring and Continuous Automated Sampling</u>. Any person subject to 310 CMR 7.08(2) electing continuous emissions monitoring for particulate matter, mercury, lead, cadmium or hydrogen chloride, or continuous automated sampling for dioxin/furan or mercury, in *lieu* of manual sampling, shall comply with the applicable notification requirements of 40 CFR 60.59b(m) and reporting requirements of 40 CFR 60.59b(n)(12) and 40 CFR 60.59b(o)(12), as last amended May 10, 2006.

(j) <u>Emission Control Plan</u>.

1. General Applicability. Any person subject to 310 CMR 7.08(2) shall submit an emission control plan (ECP) application to the Department on or before September 9, 2018 on a form provided by the Department to include new or amended applicable requirements in 310 CMR 7.08(2)(f). All ECP applications are subject to fee regulations and approval timelines contained in 310 CMR 4.00: *Timely Action Schedule and Fee Provisions*.

2. <u>Emission Control Plan Requirements</u>. The requirements of the ECP are contained in the ECP application but at a minimum, the ECP shall contain sufficient information (*e.g.*, control efficiency, specifications, standard operating and maintenance procedures) for any control equipment used to comply with 310 CMR 7.08.

3. <u>Compliance Demonstration</u>. Any person subject to 310 CMR 7.08(2) must include in the ECP application an affirmative demonstration that any facility(ies) in Massachusetts owned and operated by such persons (or by an entity controlling, controlled, by or under common control with such person) that is subject to 310 CMR 7.00 and 310 CMR 19.00: *Solid Waste Management* is in compliance with, or on a Department approved compliance schedule to meet, all provisions of 310 CMR 7.00 and 310 CMR 19.00 and any plan approval, order, notice of noncompliance or permit issued thereunder;

4. Public Comment on Emission Control Plans.

a. Upon receipt of an ECP application the Department will post a notice of public hearing. on a public website identified by the Department (which may be the Department's own website), for the duration of the public comment period. The public hearing will be held 30 days after the publication of the hearing notice. The Department shall allow for a 30-day public comment period following the published notice

b. After the public hearing and the close of the public comment period, the Department will review all of the information submitted and shall issue either a disapproval of the application or issue a draft emission control plan approval.

c. Upon issuance of the draft emission control plan approval, the Department shall:i. Provide a 30-day period for submittal of public comment;

ii. Post on a public website identified by the Department (which may be the Department's own website), for the duration of the public comment period, the following:

a. Notice of availability of the Department's proposed decision to approve or deny the ECP application and information on how to submit public comment;

b. The Department's proposed decision to approve or deny the ECP application;

c. Information on how to access the administrative record for the Department's proposed decision to approve or deny the ECP application.

iii. Send a copy of the notice required under 310 CMR 7.08(2)(j)4.c.ii.a. to EPA.

d. After the close of the public comment period, the Department will issue a final approval or disapproval of the emission control plan.

5. <u>Additional Requirements</u>. Additional requirements may be included in the approval if the Department determines that the emissions from a municipal waste combustor plant's unit(s) alone or cumulatively with other municipal waste combustor plant's unit(s) cause or contribute to a condition of air pollution or a violation of any other regulation. Such requirements include but are not limited to, emission limits on air contaminants, and additional stack testing or emission monitoring requirements.

The Department may modify the ECP at any time if the Department determines that a municipal waste combustor plant's unit(s) alone or cumulatively with other municipal waste combustor plant's unit(s) cause or contribute to a condition of air pollution or a violation of any other regulation. Such modification must comply with the requirements in 310 CMR 7.08(2)(j)7.

6. <u>Compliance Schedule</u>. The ECP shall incorporate a compliance schedule that at a minimum contains the requirements in 310 CMR 7.08(2)(k).

7. Modification to the ECP.

a. If the Department proposes to modify a municipal waste combustor plant's emission control plan, the Department shall:

i. Provide a 30-day period for submittal of public comment;

ii. Post on a public website identified by the Department (which may be the Department's own website), for the duration of the public comment period, the following:

(i) Notice of availability of the Department's proposed decision to approve or deny the ECP modification and information on how to submit public comment;

(ii) The Department's proposed decision to approve or deny the ECP modification; and

(iii) Information on how to access the administrative record for the Department's proposed decision to approve or deny the ECP modification.

iii. Send a copy of the notice required under 310 CMR 7.08(2)(j)7.a.ii.a. to EPA.

b. After the close of the public comment period, the Department will issue a final approval or disapproval of the modified ECP.

(k) <u>Schedule</u>. Municipal waste combustor unit(s) subject to 310 CMR 7.08(2) shall be in full compliance with the applicable requirements of 310 CMR 7.08(2) after March 9, 2018, except:

1. Nitrogen oxides emission limits are to be complied with by the dates specified in 310 CMR 7.08(2)(f)3.: *Table* 3, and in no case later than March 10, 2020.

2. If a municipal waste combustor unit(s) cannot comply with the NO_x emission limit in 310 CMR 7.08(2)(f)3.: *Table* 3, the person subject to 310 CMR 7.08(2) may apply in the emission control plan application due under 310 CMR 7.08(2)(j) for a source specific alternative NO_x emission limit, not to exceed a 24-hour daily arithmetic average of 185 parts per million by volume, dry basis, corrected to 7% oxygen. Such emission control plan application must evaluate each of the following NO_x controls, where it may be applied, and its technological and economic feasibility.

- a. low-NO_x burners;
- b. close coupled and separated overfire air;
- c. flue gas recirculation;
- d. steam/water injection;
- e. dry low-NO_x combustors;
- f. fuel emulsification;

g. selective noncatalytic reduction (SNCR);

- h. selective catalytic reduction (SCR);
- i. nonselective catalytic reduction (NSCR);
- j. use of emission reduction credits (ERCs) certified by the Department pursuant to

310 CMR 7.00: Appendix B (3), or pursuant to the interstate trading provisions at

- 310 CMR 7.00: Appendix B(3)(f); and
- k. other innovative technologies available to reduce NO_x.

(3) <u>Commercial, Industrial, and Special Incinerators</u>. No person shall cause, suffer, allow, or permit the construction or substantial reconstruction or alteration or thereafter the operation of a commercial, industrial, or special incinerator for which the site location has not been approved by the Department in writing.

(4) Hazardous Waste Incinerators.

(a) No person shall construct, reconstruct, alter, or modify or operate, or cause, suffer, allow or permit the construction, reconstruction alteration, modification, or operation of, any hazardous waste incinerator unless such construction, reconstruction, alteration, modification, or operation is in compliance with:

1. 310 CMR 7.01, 7.08(4), and all other provisions of 310 CMR 7.00.

2. the terms of a Department approval granted pursuant to 310 CMR 7.00.

3. all applicable provisions of 310 CMR 30.000: *Hazardous Waste* and/or 314 CMR 8.00: *Supplemental Requirements for Hazardous Waste Management Facilities*.

4. the terms of a license or permit granted by the Department pursuant to 310 CMR 30.000: *Hazardous Waste* and/or 314 CMR 8.00: *Supplemental Requirements for Hazardous Waste Management Facilities*.

5. In addition, 310 CMR 7.08(2) is adopted pursuant to the authority granted by M.G.L. c. 111, 150A.

Noncompliance with any provision of 310 CMR 30.000, or of a license granted pursuant to 310 CMR 30.000, shall be deemed noncompliance with, and shall be subject to all applicable provisions, of M.G.L. c. 21C. Noncompliance with any provision of 314 CMR 8.00, or of a permit granted pursuant to 314 CMR 8.00, shall be deemed noncompliance with, and shall be subject to all applicable provisions of, M.G.L. c. 21, §§ 26 through 53. No approval granted by the Department shall affect the responsibility of the owner or operator to comply with all other applicable laws and regulations.

(b) No person shall construct, reconstruct, alter, modify, or operate or cause, suffer, allow or permit the construction, reconstruction, alteration, modification, or operation of, any hazardous waste incinerator unless the plans, specifications, proposed Standard Operating Procedure, and the Proposed Maintenance Procedure for such hazardous waste incinerator have been submitted to the Department for approval, and the Department has granted such approval in writing. The Department may prescribe a form and/or other application methods which shall be used by each person applying for such approval from the Department.

(c) Each application for approval to construct, reconstruct, alter, modify or operate a hazardous waste incinerator shall be in compliance with the requirements set forth in 310 CMR 30.001 through 30.099 (General Provisions, *e.g.*, Definitions; Requirements for Accurate, Timely and Complete Monitoring, Recordkeeping and Submittals to the Department; Notification Procedures; and Transition Provisions) and 30.800 (Licensing Requirements and Procedures) and shall:

1. be signed by the owner or operator of the hazardous waste incinerator;

2. be accompanied by site information, plans, descriptions, specifications, and drawings showing the design of the hazardous waste incinerator, the nature and amount of emissions, and the manner in which the hazardous waste incinerator will be operated and controlled;

3. specify waste feed(s), including, for each, the anticipated heating value, viscosity, description of the physical form of the waste, and identification and quantification of hazardous waste constituents listed in 310 CMR 30.160 by the use of analytical techniques specified in "Test Methods for Evaluating Solid Waste", United States Environmental Protection Agency SW-846, 1980;

4. include a detailed description of the hazardous waste incinerator, including at least the following:

a. the incinerator's model number and type, and the name of its manufacturer;

b. the linear dimensions of the incinerator unit and the cross sectional area of the combustion chamber(s);

c. the auxiliary fuel system (type/feed);

- d. the capacity of the prime mover;
- e. the automatic cutoff system(s);
- f. the stack gas monitoring and pollution control equipment;
- g. the design of the nozzle and burner;
- h. the construction materials; and

i. each device for indicating and/or controlling temperature, pressure, and/or flow, including the location of each such device;

5. include the applicant's proposed standard operating procedure and proposed maintenance procedure, which shall include, but not be limited to, procedures for:

a. incinerator startup and operation prior to, during, and immediately following emission testing, and

b. long term incinerator operation, and

c. sampling and analysis of waste feeds, including the frequency thereof.

Such procedures shall include procedures for rapidly shutting down the waste feed and the incinerator, and controlling emissions, in the event of equipment malfunction. Such procedures shall, to the satisfaction of the Department, indicate that the incinerator will operate in compliance with the emission limitations set forth in 310 CMR 7.08(4); 6. include a proposed emission test protocol for demonstrating compliance with 310 CMR 7.00 in general and in particular with the emission limitations set forth in 310 CMR 7.08(4)(h). This protocol shall include at least the following: sampling and analysis procedures and equipment, sample locations, frequency and duration of sampling, anticipated test dates, duration of testing, quantity of waste to be burned, range(s) of temperature(s), waste feed rate, combustion gas velocity, auxiliary fuel use, and all other parameters which may affect the performance of the incinerator;

7. include whatever other information, plans, specifications, evidence, or documentation the Department may request; and

8. bear the seal and signature of a professional engineer, registered in the Commonwealth pursuant to M.G.L. c. 112, on all engineering plans, specifications, and other material submitted in or with the application.

(d) The Department may approve the construction, reconstruction, alteration, modification

or operation of a hazardous waste incinerator only if the Department is persuaded that:** 1. emissions from the incinerator would not result in air quality exceeding the Massachusetts or National Ambient Air Quality Standards;

2. emissions from the incinerator would not result in noncompliance with 310 CMR 7.01 or any other provision of 310 CMR 7.00.

3. a proposed incinerator to be constructed in a non-attainment area would not have a potential to emit equal to or greater than 100 tons per year of the contaminant upon which the non-attainment status is based (*e.g.*, particulate matter, sulfur oxides, nitrogen oxides, volatile organic compounds, or carbon monoxide), unless the incinerator is in compliance with the requirements of 310 CMR 7.00: *Appendix A*(1) through (6), Emission Offsets and Non-attainment Review;

4. a proposed modification of an incinerator in a non-attainment would not produce a significant increase in emissions of the contaminant upon which the non-attainment status is based (*e.g.*, particulate matter, sulfur oxides, nitrogen oxides, volatile organic compounds, or carbon monoxide), unless the incinerator is in compliance with the requirements of 310 CMR 7.00: *Appendix A*(1) through (6), Emissions Offsets and Non-attainment Review; and

5. a proposed incinerator subject to 310 CMR 7.00: *Appendix* A(1) through (6) (a major source or major modification) would not have total allowable emissions which, when added to allowable emissions from:

a. existing facilities in the pertinent regions, and

b. new or modified sources in the pertinent region, which sources are

not major emitting facilities, would, by the time that the incinerator is to commence operation, exceed the total emissions from existing sources allowed under the applicable SIP (prior to the application for such permit to construct or modify) by such an amount as to be inconsistent with "reasonable further progress" as defined in the Massachusetts State Implementation Plan (SIP).

(e) The Department may impose any reasonable condition upon an approval, including, but not limited to:

- 1. compliance with record-keeping requirements set forth in 310 CMR 30.542;
- 2. limitations on waste feed;
- 3. waste feed rates;
- 4. operating conditions during start-up, prior to, and during emissions testing;
- 5. long term operating conditions;

^{**} In addition to the requirements contained herein, major new sources of air contaminants and major modifications of existing sources located in attainment areas may be subject to Prevention of Significant Deterioration (PSD) regulations at 40 CFR 52.21. Effective July 1, 1982, the Department implemented the PSD program in accordance with the Department's "Procedures for Implementing Federal Prevention of Significant Deterioration Regulations". As of March 3, 2003, the federal PSD regulations are administered by the U.S. Environmental Protection Agency.

- 6. requiring the hazardous waste incinerator to be provided with:
 - a. sampling ports of such size, number, and location as the Department may require, and safe access to each port, and
 - b. instrumentation to monitor and record emission data;
- 7. quantitative analysis of the scrubber water, if any, the ash residues, and other residues, if any, for the purpose of estimating the fate of the trial POHCs; and
- 8. any other sampling and/or testing equipment.
- (f) The Department may revoke an approval if:
 - 1. construction is not begun within four years from the date of issuance of the approval; or
 - 2. during construction, work is suspended for two years; or
 - 3. there is any other lawful cause.

(g) For each hazardous waste incinerator whose construction was not completed prior to October 15, 1983, all provisions of 310 CMR 7.08(4) shall take effect on October 15, 1983. For each hazardous waste incinerator whose construction was completed prior to October 15, 1983:

1. all provisions of 310 CMR 7.08(4)(a) through (g) shall take effect on October 15, 1983; and

2. within nine calendar months after the date on which a license application is required to be submitted to the Department pursuant to 310 CMR 30.099(6), either:

a. comply with 310 CMR 7.08(4)(b), (c), and (h) through (l), or

b. persuade the Department that more time is needed to comply with 310 CMR 7.08(4)(h) through (l), and submit to the Department a proposed plan and schedule for such compliance. Said plan and schedule are subject to review and approval by the Department and shall provide for compliance with 310 CMR 7.08(4)(b), (c) and (h) through (l) as expeditiously as practicable, and in any event no later than 24 months after the date on which a license application is required to be submitted to the Department pursuant to 310 CMR 30.099(6). Such proposed plan and schedule shall be submitted in compliance with all applicable requirements set forth in 310 CMR 7.08 and in 310 CMR 30.000 and/or 314 CMR 8.00.

(h) Except as provided in 310 CMR 7.08(4)(g), no person owning, leasing, or controlling the operation of any hazardous waste incinerator shall cause, suffer, allow, or permit emissions therefrom in excess of the following emission limitations:

1. for each waste feed, a hazardous waste incinerator shall achieve a destruction and removal efficiency (DRE) of 99.99% for each Principal Organic Hazardous Constituent (POHC) designated in the Department's approval. DRE shall be determined for each POHC from the following equation:

$$DRE = (W \text{ in-W out}) \qquad X \quad 100\%$$

W in

Where:

W in =

Mass feed rate of one POHC in the waste stream feeding the incinerator, and

W out =

Mass emission rate of the same POHC present in exhaust emissions prior to release to the atmosphere;

2. For a hazardous waste incinerator with the potential to emit hydrogen chloride (HCl) at a rate equal to or greater than four pounds per hour, such HCl emissions shall be limited to no greater than the larger of either four pounds per hour or 1% of the HCl in the combustion gas prior to entering any air pollution control equipment;

3. Particulate emissions form a hazardous waste incinerator shall not exceed 0.08 grains per dry standard cubic foot when corrected for the amount of oxygen in the stack gas according to the formula:

$$Pc = PM \quad X \quad \frac{14}{21-Y}$$

Where:

Pc = the corrected concentration of particulate matter.

Pm = the measured concentration of particulate matter, and

Y = the measured concentration (percent by volume, dry) of oxygen in the stack gas.

4. Emissions of products of incomplete combustion (PICs) shall be limited to the degree necessary to comply with 310 CMR 7.01.

(i) For the purposes of demonstrating compliance with the emission limitations contained in 310 CMR 7.08(4)(h), compliance with other requirements of 310 CMR 7.00, or compliance with the terms of any approval granted pursuant to 310 CMR 7.00, each person owning, leasing, or controlling the operation of a hazardous waste incinerator shall conduct or have conducted performance tests, including, without limitation, sampling and analysis of waste and exhaust emissions, in accordance with the requirements set forth in 310 CMR 7.00, including, without limitation, the following requirements:

1. For a newly constructed, substantially reconstructed, or altered incinerator, such performance tests shall be conducted as soon as possible as determined by the Department, but in no case latter than 720 hours of operation or 120 calendar days, whichever comes first, after the initial introduction into the incinerator of each waste feed specified in a Department approval.

2. For a hazardous waste incinerator for which the Department is of the opinion that performance tests are necessary, such performance tests shall be conducted within 90 days of written notification from the Department that such tests are required, or within such other deadline as the Department may specify in said written notification, and

3. shall include an analysis demonstrating that the emissions of products of incomplete combustion (PICs) are in compliance with 310 CMR 7.01. Such analysis of PICs shall include the identification and quantification of no less than the five PICs that occur in the highest concentration in the flue gas stream. The Department may require that additional analysis be performed including, but not limited to, specifying particular compounds to be identified and quantified.

(j) Performance tests in compliance with 310 CMR 7.08(4)(i) shall be conducted in accordance with methods as approved by the Department and in conformance with 310 CMR 7.13. The sampling and analysis of waste shall in all cases be done by a person knowledgeable therein, and shall be done in the presence of a representative of the Department whenever such is deemed necessary by the Department. The results of all such tests shall:

1. be recorded and the records placed in the operating log in compliance with 310 CMR 30.542, and

2. be submitted to the Department in accordance with 310 CMR 30.807 no later than

90 days after completion of the actual testing or within such other deadline as the Department may prescribe in writing.

(k) No person shall cause, suffer, allow, or permit the operation of any hazardous waste incinerator that is not equipped with instrumentation which is properly maintained in an accurate operating condition and operated continuously to indicate and record the:

1. carbon monoxide and oxygen levels in the stack exhaust gas,

2. waste feed and supplementary fuel rates,

3. combustion temperature, and

4. combustion gas velocity.

The instrumentation and its installation shall be as approved by the Department in accordance with 310 CMR 7.08(4).

(1) No person shall cause, suffer, allow, or permit the operation of any hazardous waste incinerator unless said operation is in conformance with the following:

1. During start-up and shutdown, hazardous waste shall not be fed into the incinerator unless the incinerator is operating within the conditions of operation as specified in the Department's approval; and

2. Fugitive emissions from the combustion zone shall be controlled by:

a. keeping the combustion zone totally sealed against fugitive emissions; or

b. maintaining a combustion zone pressure lower than atmospheric pressure; or

c. an alternative means of fugitive emissions control equivalent to maintenance of combustion zone pressure lower than atmospheric pressure as approved by the Department; and

3. Each hazardous waste incinerator shall be equipped with a functioning system to automatically cease operation of the incinerator when change(s) in waste feed, incinerator design, or operating conditions exceed limits as designated in a Department approval. Each such systems, and each alarm associated therewith, shall be tested at least weekly to verify operability; and

4. At least once each day during which it is operated, each hazardous waste incinerator and associated equipment (*e.g.* pumps, valves, conveyors, and pipes) shall be subjected to thorough visual inspection for leaks, spills, fugitive emissions, and signs of tampering; and

5. All monitoring and inspection data shall be recorded and the records shall be placed in the operating log required by 310 CMR 30.542.

(m) No incinerator for the burning of polyhalogenated aromatic hydrocarbons shall be constructed, substantially reconstructed, altered, or operated except in compliance with the following requirements:

1. Polyhalogenated aromatic hydrocarbons may be burned only after the Department has expressly and in writing approved the burning of such material, and only to the extent and only while such approval is in effect. The application to the Department for such approval shall expressly state that approval is sought to burn polyhalogenated aromatic hydrocarbons.

2. The burning of polyhalogenated aromatic hydrocarbons shall achieve a destruction and removal efficiency, as determined pursuant to 310 CMR 7.08(4)(h)1., of 99.9999% for each POHC, based on burning materials more difficult to burn than tetra-, penta-, and hexachlo- rodibenzo-p-dioxin and dibenzofurans.

7.09: U Dust, Odor, Construction, and Demolition

(1) No person having control of any dust or odor generating operations such as, but not limited to asphalt batching plants, asphalt roofing materials manufacturing plants, asphalt blowing plants, foundries, chemical products manufacturing plants, incinerators, fuel utilization facilities, petroleum products manufacturing plants, aggregate manufacturing plants, food preparation or processing facilities, wood products plants, dry cleaning establishments, paint and varnish manufacturing plants, metal coating and treating plants, leather manufacturing plants, construction work, dump operations, agricultural operations and street sweeping shall permit emissions therefrom which cause or contribute to a condition of air pollution.

(2) No person responsible for any construction or demolition of an industrial, commercial, or institutional building or residential building with 20 or more dwelling units, shall cause, suffer, allow, or permit emissions therefrom which cause or contribute to a condition of air pollution. Said person shall notify the Department in writing ten working days prior to the initiation of said construction or demolition operation. The ten working day advance notice period will be waived in the event of emergency demolition necessary to prevent a public health or safety hazard.

(3) No person responsible for an area where construction or demolition has taken place shall cause, suffer, allow, or permit particulate emissions therefrom to cause or contribute to a condition of air pollution by failure to seed, pave, cover, wet, or otherwise treat said area to prevent excessive emissions of particulate matter.

(4) No person shall cause, suffer, allow, or permit the handling, transportation, or storage of any material in a manner that results or may result in emissions therefrom which cause or contribute to a condition of air pollution.

(5) No persons responsible for any construction or demolition of a structure that contains friable asbestos material shall fail to comply with 310 CMR 7.09(2) and 310 CMR 7.02. (National Emission Standards for Hazardous Pollutants)

(6) No person shall cause, suffer, allow, or permit the operation of mechanized street sweeping equipment that is not equipped with a suitable dust collection or dust suppression system which is maintained in good operating condition and is operated continuously while the street sweeping equipment is in use to prevent conditions of air pollution.

(7) 310 CMR 7.09(1) through 7.09(4) and 7.09(6) are subject to the enforcement provisions specified in 310 CMR 7.52.

7.10: U Noise

(1) No person owning, leasing, or controlling a source of sound shall willfully, negligently, or through failure to provide necessary equipment, service, or maintenance or to take necessary precautions cause, suffer, allow, or permit unnecessary emissions from said source of sound that may cause noise.

(2) 310 CMR 7.10(1) shall pertain to, but shall not be limited to, prolonged unattended sounding of burglar alarms, construction and demolition equipment which characteristically emit sound but which may be fitted and accommodated with equipment such as enclosures to suppress sound or may be operated in a manner so as to suppress sound, suppressible and preventable industrial and commercial sources of sound, and other man-made sounds that cause noise.

(3) 310 CMR 7.10(1) shall not apply to sounds emitted during and associated with:

(a) parades, public gatherings, or sporting events, for which permits have been issued provided that said parades, public gatherings, or sporting events in one city or town do not cause noise in another city or town;

- (b) emergency police, fire, and ambulance vehicles;
- (c) police, fire, and civil and national defense activities;

(d) domestic equipment such as lawn mowers and power saws between the hours of 7:00 A.M. and 9:00 P.M.

(4) 310 CMR 7.10(1) is subject to the enforcement provisions specified in 310 CMR 7.52.

7.11: U Transportation Media

(1) Motor Vehicles.

(a) All motor vehicles registered in the Commonwealth shall comply with pertinent regulations of the Registry of Motor Vehicles relative to exhaust and sound emissions.
(b) No person shall cause, suffer, allow, or permit the unnecessary operation of the engine of a motor vehicle while said vehicle is stopped for a foreseeable period of time in excess of five minutes. 310 CMR 17.11 shall not apply to:

1. vehicles being serviced, provided that operation of the engine is essential to the proper repair thereof, or

2. vehicles engaged in the delivery or acceptance of goods, wares, or merchandise for which engine assisted power is necessary and substitute alternate means cannot be made available, or

3. vehicles engaged in an operation for which the engine power is necessary for an associated power need other than movement and substitute alternate power means cannot be made available provided that such operation does not cause or contribute to a condition of air pollution.

(c) 310 CMR 7.11(1)(b) is subject to the enforcement provisions specified in 310 CMR 7.52.

(2) <u>Diesel Trains</u>.

(a) No person owning or operating a diesel powered locomotive shall cause, suffer, allow, or permit said locomotive to be operated in a manner such as to cause or contribute to a condition of air pollution.

(b) No person shall cause, suffer, allow, or permit the unnecessary foreseeable idling of a diesel locomotive for a continuous period of time longer than 30 minutes. 310 CMR 7.00 shall not apply to diesel locomotives being serviced provided that idling is essential to the proper repair of said locomotive and that such idling does not cause or contribute to a condition of air pollution.

(c) 310 CMR 7.11(2)(a) and 7.11(2)(b) are subject to the enforcement provisions specified in 310 CMR 7.52.

(3) <u>Aircraft</u>. No person owning or operating an airport shall cause, suffer, allow, or permit routine warmups, testing, or other operation of aircraft while on the ground, in such a manner as to cause or contribute to a condition of air pollution, outside of the property lines of the airport, that in the opinion of the Department are unreasonable and feasibly preventable.

(4) <u>Marine Vessels</u>. No person owning, operating, or having control of a seagoing vessel while it is in the District shall cause, suffer, allow, or permit, aboard said vessel, tube blowing or soot removal activities that cause or contribute to a condition of air pollution. 310 CMR 7.11 shall apply only in the Merrimack Valley Air Pollution Control District, Metropolitan Boston Air Pollution Control District, and the Southeastern Massachusetts Air Pollution Control District.

7.12: U Source Registration

(1) Applicability.

(a) 310 CMR 7.12 applies to any owner/operator of a facility if such facility meets any of the criteria in 310 CMR 7.12(1)(a)1. through 11.

1. Has a facility-wide maximum energy input capacity in BTU/hour from fuel utilization facilities equal to or greater than the following size thresholds:

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a. All Fuels	40,000,000;	
b. Residual Fuel Oil	10,000,000;	
c. Solid Fuel	3,000,000;	
d. Used Oil Fuel	3,000,000; or	
e. Landfill Gas	3,000,000.	
Has a maximum energy	input capacity in Btu/hou	

2. Has a maximum energy input capacity in Btu/hour from any fuel utilization facility emission unit that combusts natural gas, propane, butane, or distillate oil equal to or greater than the 10,000,000 Btu/hour.

3. Has non-combustion federal potential¹ to emit (facility-wide) equal to or greater than:

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	a.	Particulate Matter	two tons per year;
	b.	Oxides of Sulfur	2.5 tons per year;
	c.	Organic Material	ten tons per year;
	d.	Nitrogen Dioxide	4.4 tons per year; or
	e.	Hazardous Air Pollutants	ten tons of any individual HAP per year or 25 tons
			of total HAPs per year.

¹ Non-combustion potential emissions excludes emissions from motor vehicles, incinerators and products of combustion from fuel utilization facilities.

4. Is or contains a hazardous waste incinerator, regardless of size.

5. Is or contains an incinerator with the capacity to reduce 50 pounds per hour or more of waste.

6. Is or contains an emission unit or process that is subject to a National Emission Standard for Hazardous Air Pollutants (NESHAP) or subject to a Maximum Achievable Control Technology (MACT) standard defined at 40 CFR Part 61 and Part 63, for which the Department has received delegation from EPA.

7. Is or contains a stationary reciprocating internal combustion engine (except for emergency or standby engines) with a maximum energy input capacity of 3,000,000 Btu per hour or greater (burning any fuel).

8. Is required to submit a Source Registration as a condition of a plan approval or operates under a Restricted Emission Status (RES) pursuant to 310 CMR 7.02(9) or 7.02(10) issued since January 1, 1990. The owner/operator of a facility required by a plan approval, issued prior to January 1, 1990, to submit an annual Source Registration is no longer required to do so unless such facility meets one of the other applicability criteria in 310 CMR 7.12 or a more recent Department approval requires submittal of a Source Registration.

9. Is a facility for which the owner/operator has received a request from the Department to submit a Source Registration.

10. Is a facility subject to 310 CMR 7.00: Appendix C in the previous calendar year.

11. Had actual emissions equal to or greater than 0.5 tons of lead, 25 tons of NO_x , or 25 tons of VOC in the previous calendar year.

(b) Any owner/operator of a facility that becomes subject to 310 CMR 7.12 that was not previously subject to 310 CMR 7.12 shall notify the Department by January 31^{st} of the calendar year immediately following the calendar year in which the facility became subject to 310 CMR 7.12.

(c) Any owner/operator of a facility subject to 310 CMR 7.26(20) through (29) need not submit a Source Registration pursuant to 310 CMR 7.12 unless otherwise required to report pursuant to 310 CMR 7.12(1)(a)9. or such facility meets any of the applicability criteria in 310 CMR 7.12(1)(a)(11).

(2) <u>Schedule</u>.

(a) Except as provided in 310 CMR 7.12(2)(b), a Responsible Official of a facility shall sign and submit a Source Registration to the Department every year by the date indicated below:

- 1. May 1^{st} for a facility subject to 310 CMR 7.00: *Appendix C* in the previous calendar year;
- 2. June 1st for a facility that:
 - a. has an RES permit issued by the Department pursuant to 310 CMR 7.02(9);

b. had actual emissions of lead equal to or greater than 0.5 tons in the previous calendar year, or actual emissions of NO_x or VOC equal to or greater than 25 tons per year in the previous calendar year;

c. emits an air contaminant subject to a NESHAP or is subject to a MACT standard defined at 40 CFR Part 61 and Part 63, for which the Department has received delegation from EPA;

d. is required, as a condition of a plan approval issued by the Department since January 1, 1990, to submit a Source Registration annually.

(b) If a facility is not subject to the annual reporting schedule in 310 CMR 7.12(2)(a), a Responsible Official shall sign and submit a Source Registration to the Department by April 1st once every three years.

(3) Source Registration Contents.

(a) An owner/operator shall provide information in the Source Registration as specified in a format provided by the Department including, but not limited to:

1. A complete description of the facility, including a description of process and combustion equipment, facility operating hours and operating schedule, and raw materials and fuels used at the facility. Once a facility is subject to 310 CMR 7.12, all emission units and processes at the facility shall be included in the Source Registration even if, individually, certain emission units and processes may not meet the applicability thresholds of 310 CMR 7.00. Emission units that are "insignificant activities" under 310 CMR 7.00: Appendix C(5)(i) need not be included;

2. Detailed emissions estimates for all criteria and hazardous air pollutants emitted at the facility;

3. An Emission Statement summarizing and certifying actual annual emissions and peak ozone season day emissions of volatile organic compounds and oxides of nitrogen;

4. A description of air pollution control equipment and capture and control efficiencies of said equipment;

5. Calculations and assumptions used to support calculations of emissions such as annual fuel process rate, and peak ozone season daily process rate; and

6. Certification of accuracy to ensure that the information contained in the Source Registration is accurate and complete to the best knowledge of the Responsible Official signing the submittal pursuant to 310 CMR 7.01.

(b) Where such format is part of an electronic data system operated by the Department, the owner/operator shall submit the Source Registration using the electronic data system.

(c) Copies of Source Registration and other information supplied to the Department, to comply with 310 CMR 7.12 shall be retained by the facility owner/operator for five years from the date of submittal.

(4) <u>Verification of Information</u>. The Department may inspect a facility at any time for the purpose of verifying information contained in Source Registration.

7.13: U Stack Testing

(1) Any person owning, leasing, operating or controlling a facility for which the Department has determined that stack testing is necessary to ascertain compliance with the Department's regulations or design approval provisos shall cause such stack testing:

(a) to be conducted by a person knowledgeable in stack testing,

(b) to be conducted in accordance with procedures contained in a test protocol which has been approved by the Department,

(c) to be conducted in the presence of a representative of the Department when such is deemed necessary, and

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

NON-TEXT PAGE

(d) to be summarized and submitted to the Department with analyses and report within such time as agreed to in the approved test protocol.

(2) Any person having control of a facility, relative to which the Department determines that stack testing (to ascertain the mass emission rates of air contaminants emitted under various operating conditions) is necessary for the purposes of regulation enforcement or determination of regulation compliance, shall cooperate with the Department to provide:

(a) entrance to a location suitable for stack sampling;

- (b) sampling ports at locations where representative samples may be obtained;
- (c) staging and ladders to support personnel and equipment for performing the tests;

(d) a suitable power source at the sampling location for the operation of sampling equipment; and

(e) such other reasonable facilities as may be requested by the Department.

7.14: U Monitoring Devices and Reports

(1) Upon request by the Department through direct communication or public notice, any person who owns or operates a stationary emission source of a category and class specified by the Department:

(a) shall install, maintain, and use emission monitoring devices, of a design and installation approved by the Department; and

(b) shall make periodic reports to the Department on the nature and amounts of emissions from said source which the Department shall review and correlate for its use in emissions control and exhibit for public information.

(2) Any person who owns or operates an emission source as described in 40 CFR, Part, 51, Appendix P, as amended, shall comply with the minimum requirements for continuous emission monitoring, recording, and reporting as set forth therein for opacity, nitrogen oxides emissions, sulfur dioxide emissions, and oxygen or carbon dioxide.

(3) The monitoring and recording required in 310 CMR 7.14(2) shall begin by August 6, 1988.

7.15: U Asbestos

(1) <u>Definitions</u>. The definitions set forth at 310 CMR 7.00 apply to 310 CMR 7.15, unless otherwise defined in 310 CMR 7.15(1). The following words and phrases shall have the following meanings as they appear in 310 CMR 7.15. If a term is defined both in 310 CMR 7.00 and in 310 CMR 7.15(1), then the definition in 310 CMR 7.15(1) applies for purposes of 310 CMR 7.15.

<u>ADEQUATELY WET</u> or <u>ADEQUATELY WETTED</u> means fixing or coating with water (or water to which a surfactant has been added), amended water or a remover-encapsulant, so as to prevent a friable condition and visible emissions. Material shall be considered adequately wetted where it has been fixed or coated with water (or water to which a surfactant has been added), amended water or a remover-encapsulant, so as to prevent a friable condition and visible emissions.

<u>AHERA</u> means the Asbestos Hazard Emergency Response Act, 15 U.S.C. 2646 *et seq.*, and the regulations promulgated thereunder, including 40 CFR Part 763.

AMENDED WATER means water to which a wetting agent has been added.

<u>ASBESTOS</u> means all asbestiform varieties of serpentinite (chrysotile), riebeckite (crocidolite), cummingtonite-grunerite (amosite), anthophyllite, actinolite, and tremolite, and any other asbestiform minerals designated as asbestos by EPA in 40 CFR 61.141.

<u>ASBESTOS ABATEMENT ACTIVITY</u> means the removal, encapsulation, demolition, renovation, enclosure, repair, disturbance, handling, transportation, storage, or disposal of asbestos-containing material or asbestos-containing waste material or any other activity involving asbestos-containing material or asbestos-containing waste material that has the potential to result in a condition of air pollution. <u>ASBESTOS ABATEMENT ACTIVITY</u> does not include survey, sampling, analysis, monitoring, or visual inspection activities.

<u>ASBESTOS ANALYTICAL SERVICES</u> means services provided by a person certified by the Commonwealth pursuant to 453 CMR 6.08: *Certification and Other Requirements for Asbestos Analytical Services* which include, but are not limited to, the counting or enumeration of asbestos fibers in the air (air monitoring analysis) and the identification and quantification of asbestos in materials (bulk sample analysis) in connection with any asbestos hazard assessment, facility inventory, exposure measurement, abatement activity or associated activity.

<u>ASBESTOS-CONTAINING MATERIAL (ACM)</u> means any material containing 1% or more asbestos as determined by a laboratory using protocols set forth in the *Method for the Determination of Asbestos in Bulk Building Materials* found in EPA report EPA/600/R-93/116, or another method as directed by the Department. <u>ASBESTOS-CONTAINING MATERIAL</u> (<u>ACM</u>) includes, but is not limited to, sprayed-on and troweled-on materials applied to ceilings, walls, and other surfaces; insulation on pipes, boilers, tanks, ducts, and other equipment, structural and non-structural members; tiles; asphalt roofing or siding materials; or asbestos-containing paper.

<u>ASBESTOS-CONTAINING WASTE MATERIAL (ACWM)</u> means any ACM removed during a demolition or renovation project and anything contaminated with asbestos in the course of a demolition or renovation project including, but not limited to, asbestos waste from control devices, bags or containers that previously contained asbestos, contaminated clothing, materials used to enclose the work area during the demolition or renovation operation, and demolition or renovation debris. <u>ASBESTOS-CONTAINING WASTE MATERIAL (ACWM)</u> shall also include ACM on and/or in facility components that are inoperable or have been taken out of service and any ACM that is damaged or deteriorated to the point where it is no longer attached as originally applied or is no longer serving the intended purpose for which it was originally installed.

<u>ASBESTOS CONTRACTOR</u> means any person who has a valid license issued by the Commonwealth pursuant to 453 CMR 6.05: *Licensure of Asbestos Contractors* for the purpose of entering into or engaging in asbestos abatement activity.

<u>ASBESTOS INSPECTOR</u> means any person certified by the Commonwealth pursuant to 453 CMR 6.07: *Certification of Consultants* who identifies, assesses the condition of, or collects pre-abatement samples of ACM.

<u>ASBESTOS PROJECT MONITOR</u> means any person certified by the Commonwealth pursuant to 453 CMR 6.07: *Certification of Consultants* who:

(a) Collects air and bulk samples and performs visual inspections for the purpose of determining asbestos project completion;

(b) Collects environmental asbestos air samples for the purpose of assessing present or future potential for exposure to airborne asbestos; or

(c) Functions as the on-site representative of the facility owner or other persons by overseeing the activities of the asbestos contractor.

<u>ASBESTOS SURVEY REPORT</u> means a written report resulting from a thorough inspection using EPA approved procedures and methods, or an alternate asbestos inspection method that has received prior written approval from the Department, to determine whether materials or structures to be worked on, renovated, removed or demolished (including materials on the outside of structures) contain asbestos.

<u>BULK LOADING</u> means the placement of unconfined ACWM in a vehicle or container, such as a roll-off, dumpster or truck in *lieu* of packaging the ACWM in individual leak tight containers.

<u>CONTAINERIZE</u> means to place into sealed containers which will prevent leakage of solids, including dust, and liquids.

<u>DEMOLITION</u>, for the purposes of 310 CMR 7.15, means the wrecking or taking out of any load-supporting structural member of a facility together with any related handling operations or the intentional burning of any facility.

<u>DISTURBANCE</u> means a physical disruption of the matrix of an ACM which predisposes the material to release fibers or to generate asbestos-containing dust or debris.

<u>DUMPING GROUND</u>, for the purpose of 310 CMR 7.15, means a facility or place used for the disposal of ACWM from one or more sources which is not established or maintained pursuant to a valid site assignment and permit in accordance with M.G.L. c. 111, § 150A, 310 CMR 16.00: *Site Assignment Regulations for Solid Waste Facilities* or 310 CMR 19.000: *Solid Waste Management*.

<u>EMERGENCY RENOVATION OPERATION</u> means a renovation operation that was not planned but results from a sudden, unexpected event that, if not immediately attended to, presents a safety or public health hazard, is necessary to protect equipment from damage, or is necessary to avoid imposing an unreasonable financial burden. <u>EMERGENCY RENOVATION</u> <u>OPERATION</u> includes operations necessitated by nonroutine failures of equipment.

<u>ENCAPSULATION</u> means the application of a coating or liquid sealant to ACM to reduce the tendency of the material to release fibers.

<u>ENCLOSURE</u> means the covering or wrapping of friable ACM in, under or behind air-tight barriers.

<u>FACILITY</u> means any dumping ground, or any installation, structure, building establishment or ship, and associated equipment.

<u>FRIABLE</u> means material that, when dry, can be crumbled, shattered, pulverized or reduced to powder by hand pressure.

<u>FRIABLE ASBESTOS-CONTAINING MATERIAL (FRIABLE ACM)</u> means any ACM, that, when dry, can be crumbled, shattered, pulverized or reduced to powder by hand pressure or any non-friable ACM that has been subjected to sanding, grinding, cutting, or abrading or has been crumbled, shattered or pulverized by mechanical means such as, but not limited to, the use of excavators, bulldozers, heavy equipment, or power and/or hand tools.

<u>GLOVE BAG</u> or <u>GLOVEBAG</u> means a manufactured plastic bag-type of enclosure with built-in gloves, which is placed with an air-tight seal around a facility component which permits ACM in or on the facility component to be removed without releasing asbestos fibers into the atmosphere.

<u>HEPA FILTRATION</u> means high efficiency particulate air filtration capable of filtering 0.3 micron particles with 99.97% efficiency.

<u>INCIDENTAL MAINTENANCE PROJECT OR WORK</u> means any asbestos abatement activity conducted in accordance with the applicable work practice standards set forth in 310 CMR 7.15 and which involves the removal or disturbance of:

- (a) 100 square feet or less of asbestos-containing floor tile and related asbestos-containing mastics; and/or
- (b) 32 square feet or less of asbestos-containing gypsum wallboard and/or joint compound.

<u>LEAK-TIGHT</u> means a condition under which solids, including dust and liquids, cannot escape or spill out of a container.

<u>NON-FRIABLE</u> means material that, when dry, cannot be crumbled, shattered, pulverized or reduced to powder by hand pressure.

<u>NON-FRIABLE ASBESTOS-CONTAINING MATERIAL (NON-FRIABLE ACM)</u> means any ACM that, when dry, cannot be crumbled, shattered, pulverized or reduced to powder by hand pressure and that has not been subjected to sanding, grinding, cutting, or abrading and has not been crumbled, shattered, or pulverized by mechanical means such as, but not limited to, the use of excavators, bulldozers, heavy equipment, or power and/or hand tools.

<u>OSHA</u> means the Occupational Safety and Health Administration of the United States Department of Labor.

<u>OWNER-OCCUPIED</u>, <u>SINGLE-FAMILY RESIDENCE</u> means any single unit building containing space for uses such as living, sleeping, preparation of food, and eating that is used by a single family which owns the property both prior to and after renovation or demolition. <u>OWNER-OCCUPIED</u>, <u>SINGLE-FAMILY RESIDENCE</u> includes houses, mobile homes, trailers, detached garages, houseboats, and houses with a "mother-in-law apartment" or "guest room". <u>OWNER-OCCUPIED</u>, <u>SINGLE-FAMILY RESIDENCE</u> does not include rental property, multiple-family buildings, mixed use commercial/residential buildings or structures used for fire training exercises.

OWNER/OPERATOR means any person who:

- (a) has legal title, alone or with others, of a facility or dumping ground;
- (b) has the care, charge, or control of a facility or dumping ground, or

(c) has control of an asbestos abatement activity including, but not limited to, contractors and subcontractors.

<u>RENOVATION</u>, for the purposes of 310 CMR 7.15, means altering a facility or one or more facility components in any way, including the stripping or removal of ACM from a facility component. Operations in which load-supporting structural members are wrecked or taken out are "demolitions".

<u>SAMPLING</u> means the process of obtaining portions of materials suspected of containing asbestos, including the taking of bulk portions of materials for analysis to determine composition, and the collection of air for the purposes of measuring the presence of asbestos.

<u>SURVEY</u> means any pre-demolition or pre-renovation activity undertaken at a facility for the purpose of determining the presence, location, amount, and condition of ACM or material assumed to contain asbestos. Activities including, but not limited to, the following do not meet the requirements for a survey pursuant to 310 CMR 7.15:

(a) Inspections performed by employees or agents of federal, state or local government solely for the purpose of determining compliance with applicable statutes or regulations; or(b) Inspections, surveillance and testing conducted for the purpose of compliance with AHERA.

<u>SUSPECT ASBESTOS-CONTAINING MATERIAL</u> means products that have a reasonable likelihood of containing asbestos based upon their appearance, composition and use. <u>SUSPECT ASBESTOS-CONTAINING MATERIAL</u> includes, but is not limited to, non-fiberglass insulation (*e.g.* pipe, boiler, duct work, *etc.*), cement/transite shingles, vinyl floor and wall tiles, vinyl sheet flooring, plaster, cement/transite pipes, cement sheets (corrugated and decorative), ceiling tiles, cloth vibration dampers or ductwork, spray-on fire proofing, mastic (flooring or cove base adhesive or damp proofing), and asphalt roofing or siding materials (shingles, roofing felts, tars, *etc.*).

<u>VISIBLE DEBRIS</u> means any visually detectable particulate residue, such as dust, dirt or other extraneous material which may or may not contain asbestos.

<u>WASTE SHIPMENT RECORD</u> means the shipping document, required to be originated and signed by the owner/operator, used to track and substantiate the disposition of ACWM.

<u>WORK AREA</u> means the area or location where any asbestos abatement activity or incidental maintenance work is being performed, including but not limited to: areas used for accessing the location where asbestos abatement, asbestos-associated project work or incidental work is being performed; areas used for the storage of equipment or removed materials related to asbestos abatement activity; and other areas of a facility or location in which the Department determines that such asbestos abatement activity has been or may be an actual or potential cause of a condition of air pollution.

<u>WORK PRACTICE STANDARDS</u> means the standards, procedures or actions for the removal, enclosure or encapsulation of asbestos, or for the demolition, renovation, maintenance or repair of facilities containing asbestos.

<u>WORKING DAY</u> means any day that the Massachusetts Department of Environmental Protection is open for business.

(2) <u>Applicability</u>.

(a) 310 CMR 7.15 applies to any persons engaged in asbestos abatement activities or associated activities or actions set forth in 310 CMR 7.15(3), and to activities associated with such asbestos abatement activities, including, but not limited to, notifications, surveys, visual inspections, and recordkeeping.

(b) Nothing in 310 CMR 7.15 shall relieve any person from complying with all other applicable federal, state and local laws and regulations, including, but not limited to, 42 U.S.C.A. § 7412 (the Clean Air Act) and 40 CFR, Part 61, Subpart M (the Asbestos National Emission Standard for Hazardous Air Pollutants); and M.G.L. c. 149, §§ 6A through 6F (statutes authorizing the Department of Labor Standards to regulate asbestos) and 453 CMR 6.00: *The Removal, Containment or Encapsulation of Asbestos*.

(3) <u>Prohibitions</u>.

(a) No person shall:

asbestos-containing insulating material.

1. Violate or cause, suffer, allow or permit a person to violate any requirement set forth in 310 CMR 7.15; or

2. Cause, suffer, allow, or permit any asbestos abatement activity which causes or contributes to a condition of air pollution; or

3. Cause, suffer, allow, or permit any asbestos abatement activity which poses an actual or potential threat to human health, safety and welfare or to the environment.

- (b) No person shall prevent access to ACM for subsequent removal.
- (c) No person shall spray ACM on any facility or facility component.
- (d) No person shall apply an encapsulant to severely damaged or deteriorated ACM.

(e) No person shall install or reinstall asbestos-containing insulating material on a facility or facility component or install or reinstall a facility component that contains

(f) No person shall abandon or leave inoperable or out-of-service facility components that contain ACM, that are not in compliance with 310 CMR 7.15(3)(g), and are located above ground or have been exposed by excavation on-site. Inoperable or out-of-service facility components containing ACM and located underground do not need to be removed unless they are disturbed or uncovered by excavation.

(g) No person shall fail to maintain ACM that is located above ground, in a facility or that is uncovered by excavation, in good condition and serving the intended purpose for which it was originally installed.

(h) No person shall make, or cause any other person to make, any false, inaccurate, incomplete or misleading statement(s) in any notification or any other record or report submitted to or required by the Department pursuant to 310 CMR 7.15. Each owner/operator of a facility subject to any asbestos abatement activity shall notify the Department in writing immediately, but in no event more than 24 hours after the discovery of any false, inaccurate, incomplete, or misleading statement(s) in any such notification or other record or report submitted to or required by the Department pursuant to 310 CMR 7.15.

(4) <u>Survey Requirements</u>. With the exception of the owner of an Owner-occupied, Single-family Residence who performs asbestos abatement activities at the owner's residence involving solely non-friable ACM, the owner/operator of a facility or facility component that contains suspect ACM shall, prior to conducting any demolition or renovation, employ or engage an asbestos inspector to thoroughly inspect the facility or facility component, or those parts thereof where the demolition or renovation will occur, to identify the presence, location, amount and condition of any ACM or suspect ACM and to prepare a written asbestos survey report. The survey shall identify and assess suspect ACM located in all areas that will be breached or otherwise affected by demolition or renovation activities including, but not limited to, wall cavities, areas above ceilings and under/between multiple layers of flooring. Public and private utility owners/operators of underground cement pipes in their system networks shall comply with the provisions of 310 CMR 7.15(12A)(b) in *lieu* of 310 CMR 7.15(4).

(a) The written asbestos survey report shall describe the demolition or renovation operation to be undertaken and identify the types, amounts, condition and locations of all ACM present. The written asbestos survey report shall also include the following:

1. The date(s) of the survey of the facility;

2. The printed name, business address, business telephone number, certification number and signature of the asbestos inspector who conducted the survey and prepared the report; and

3. A description of the manner used to determine the sampling locations.

(b) The written asbestos survey report shall also contain an inventory of the exact locations of the ACM or suspect ACM from which samples were collected, analytical results of all samples taken, the date(s) such samples were collected, the name(s) of the persons who provided asbestos analytical services, and a blueprint, site map, diagram or written description of the facility and locations(s) thereof subject to demolition or renovation. This documentation shall clearly identify each location subject to demolition and/or renovation and the corresponding footage (square and/or linear) of any ACM or suspect ACM in each location.

(c) Any suspect ACM that is not sampled and tested for the presence of asbestos must be handled and disposed of as if it were ACM and must be identified as ACM in the asbestos survey report.

(d) The owner/operator of a facility or facility component shall maintain a copy of the written asbestos survey report available at the facility for review by or submittal to the Department upon request at all times during the asbestos abatement activities and shall preserve and maintain such report at the facility for at least two years following the completion of said activities. If the facility is unstaffed or in the event that the facility is demolished, the owner/operator shall preserve and maintain the written asbestos survey report at its regular place of business.

(5) <u>Removal Requirements</u>. The owner/operator of a facility or facility component shall:

(a) Remove and dispose of any ACM in accordance with 310 CMR 7.15, prior to conducting any demolition and/or any renovation thereof; and

(b) Remove or encapsulate any friable ACM that has been or will be exposed or created as a result of any demolition or renovation, in accordance with 310 CMR 7.15(7).

(6) <u>Notification Requirements</u>. Unless specifically exempted under the provisions of 310 CMR 7.15(6)(f), or if notification is being made under the terms of an approved facility blanket notification pursuant to 310 CMR 7.15(6)(j), the owner/operator of a facility or facility component shall notify the Department and obtain Department authorization prior to conducting any asbestos abatement activity, as follows:

(a) Each owner/operator shall ensure that a fully completed asbestos notification form, including any applicable fee, is received by the Department at least ten working days prior to the commencement of the asbestos abatement activity;

(b) An asbestos notification form shall be deemed accepted by the Department unless the person submitting said asbestos notification form is notified in writing by the Department of deficiencies in the asbestos notification form within ten calendar days of the Department's receipt of said form;

(c) The Department's acceptance of said asbestos notification form shall constitute the Department's authorization for the asbestos abatement activity described in the asbestos notification form to be conducted in compliance with all applicable provisions of 310 CMR 7.15;

(d) The start date on the asbestos notification form shall encompass the time required for set-up of the area where such asbestos abatement activity will occur, including any pre-cleaning and installation of polyethylene sheeting required by 310 CMR 7.15(7)(c); and (e) Notification shall be made only by use of the Department approved asbestos notification form, and shall include all required information, be accompanied by the applicable fee, and be legible. An incomplete or illegible notification form will not be accepted and any asbestos abatement activity described therein will not be deemed authorized by the Department or in compliance with 310 CMR 7.15.

(f) <u>Notification Exemptions</u>. The following activities shall not be subject to the notification requirements of 310 CMR 7.15(6)(a) through (e):

1. <u>Notification Exemption for Exterior Asbestos-containing Cementitious Shingles,</u> <u>Sidings and Panels</u>. The removal or disturbance of 100 square feet or less of exterior asbestos-containing cementitious shingles, sidings and panels, provided that the applicable requirements of 310 CMR 7.15(12) are met.

2. <u>Notification Exemption for Asbestos Incidental Maintenance Projects or Work</u>. The removal or disturbance of asbestos-containing floor tile, and asbestos mastics or asbestos-containing gypsum wallboard/joint compound systems, provided that the applicable requirements of 310 CMR 7.15(13) are met.

3. <u>Notification Exemption for Owner of Owner-occupied, Single-family Residence</u>. The owner of an Owner-occupied, Single-family Residence who performs asbestos abatement activities at the owner's residence involving solely non-friable ACM; provided that the abatement activity does not cause the non-friable ACM to become friable ACM and provided that the asbestos abatement activity is not required to be conducted by a Licensed Contractor pursuant to 453 CMR 6.00: *The Removal, Containment or Encapsulation of Asbestos*. This exemption does not apply to the removal or disturbance of greater than 100 square feet of exterior asbestos-containing cementitious shingles, siding and panels.

(g) Notification Revision Procedures. Notification date changes shall be made as follows: 1. The original start date on a notification form that has been submitted to and accepted by the Department in compliance with 310 CMR 7.15(6)(a) and (b) may be revised (*i.e.* moved forward or postponed), and asbestos abatement activity may start on said revised date provided that a revised notification form is received and accepted by the Department at least ten working days prior to the new start date for the asbestos abatement activity and provided that the revision is properly submitted to and accepted by the Department prior to the start date for the asbestos abatement activity listed on the original notification form.

2. If the asbestos abatement activity will end earlier than the end date listed on the original notification form, the Department must receive a revised notification form identifying the change no later than 24 hours prior to the revised end date for the activity. 3. The asbestos abatement activity end date set forth in the original notification form may be extended to allow additional time to complete the specific asbestos abatement activity identified on the original notification. In such cases, the person who submitted the original notification form shall revise the original notification form and specify a new end date provided that the end date specified in the original notification form has not passed.

4. If asbestos abatement activities are not continuous and will occur at intermittent times within the notified asbestos abatement work period identified on the notification form, the person who submitted the original notification shall inform the applicable Department regional office in writing, via fax, email or hand delivery, of the specific dates and times when the asbestos abatement activities will suspend and resume. The person who submitted the original notification form shall provide the Department with such notice a maximum of 24 hours following suspension of work and a minimum of 24 hours prior to resuming asbestos abatement activities.

(h) <u>Multiple Building Abatements</u>. Separate notification forms shall be submitted to and accepted by the Department at least ten working days in advance of any asbestos abatement activity for each building and/or structure in which asbestos abatement activities will occur.
 (i) Waiver of the Advance Notification Period.

1. The Department may approve, at its sole discretion, a waiver of the ten working day advance notification period under the following circumstances and situations:

a. demolition of a facility under an order of a state or local government agency issued because the facility is structurally unsound and in danger of imminent collapse; or

b. an emergency renovation operation.

2. Requests for approval of an advance notification waiver shall be made to the applicable Department regional office.

3. When approved by the Department, the waiver shall apply only to the ten working day advance notification period. All other requirements of 310 CMR 7.15 shall continue to fully apply to asbestos abatement activities for which such notification waiver has been approved.

4. If the Department approves such a waiver, the person receiving the waiver shall provide notification regarding all asbestos abatement activities to the Department on the Department approved asbestos notification approval form (ANF 001) within 24 hours of commencement of the asbestos abatement activities, including set-up or on-site preparation activities.

(j) <u>Facility Blanket Notification</u>. An owner/operator may apply to the Department for approval of a blanket notification covering multiple asbestos abatement projects for limited maintenance projects involving less than ten linear feet of ACM on pipe or 25 square feet of ACM on other facility components at a facility; or for large scale planned asbestos abatement projects at a facility; or for work in individual contiguous utility system networks owned by public or private utilities involving up to 25 linear feet of ACM on pipe or up to 60 square feet of ACM on other facility components at a facility.

1. Blanket notification applications shall be submitted on Department approved forms, shall include all required information and any additional information requested by the Department, shall be accompanied by the appropriate fee, and shall be legible.

2. Blanket notification approvals may be granted for a period not to exceed 12 months at the Department's discretion and when granted the terms of the approval shall be facility-specific.

3. The Department's receipt and acceptance of a blanket notification application shall not constitute approval thereof. The Department will issue a written approval or denial of the application at its discretion.

4. Individual notifications shall be submitted to the Department before the start of each project or project segment thereof conducted under an approved Facility Blanket notification. The approval of an application for a Facility Blanket notification shall have the effect of waiving the ten working days advance notification period for each individual project or project segment conducted under said Facility Blanket approval. However, each approval of an application for a Facility Blanket notification shall establish an advance notification period that shall apply to the individual project(s) or project segment(s) conducted under that specific approval.

(7) <u>General Asbestos Abatement Work Practice Standards</u>. Unless otherwise exempted under 310 CMR 7.15(9), 310 CMR 7.15(10), 310 CMR 7.15(11), 310 CMR 7.15(12) or 310 CMR 7.15(13), the owner/operator of a facility or facility component where any asbestos abatement activity is conducted shall ensure that the work practice standards listed below are followed.

(a) <u>No Visible Emissions</u>. No visible emissions shall be discharged to the outside air during the collection, processing, packaging, or transporting of any ACM or ACWM.

(b) <u>Required Use of Asbestos Contractors</u>. Except as allowed by 453 CMR 6.14(1)(a): *Exception to Licensing Requirement for Entities Conducting Response Actions in their Own Facilities*, only asbestos contractors licensed pursuant to 453 CMR 6.00: *The Removal, Containment or Encapsulation of Asbestos* shall carry out asbestos abatement activities.

(c) Work Area Preparation Requirements to prevent emissions to the ambient air.

1. <u>Shutdown of HVAC Systems</u>. The facility heating, ventilation and air conditioning (HVAC) systems in the work area shall be shut down, locked out and isolated.

2. <u>Removal of Moveable Objects</u>. All moveable objects shall be removed from the work area prior to commencement of asbestos abatement work. Items to be reused which may have been contaminated with asbestos shall be decontaminated by HEPA vacuuming or wet cleaning prior to their being removed from the work area.

3. <u>Covering of Non-moveable Objects</u>. All non-moveable or fixed objects remaining within the work area shall be wrapped or covered with six mil (minimum) plastic sheeting and completely sealed with duct tape or the equivalent.

4. <u>Isolation of Work Area</u>. Prior to the commencement of any asbestos abatement activity, the work area shall be isolated in accordance with the requirements of 310 CMR 7.15(7)(c)4. to prevent emissions to the ambient air. The work area shall be isolated by sealing all openings including, but not limited to, windows, doors, ventilation openings, drains, grills, and grates with six mil thick (minimum) plastic sheeting and duct tape or the equivalent. For asbestos abatement activities defined at 310 CMR 7.15(1), large openings such as open doorways, elevator doors, and passageways shall be first sealed with solid construction materials, such as plywood over studding, which shall constitute the outermost boundary of the asbestos work area. All cracks, seams and openings in such solid construction materials shall be caulked or otherwise sealed, so as to prevent the movement of asbestos fibers out of the work area.

5. <u>Covering of Floor and Wall Surfaces</u>. Except as listed in 310 CMR 7.15(7)(c)5.a. through c., floor and wall surfaces shall be covered with plastic sheeting. All seams and joints shall be sealed with duct tape or the equivalent. Floor covering shall consist of at least two layers of six mil thick plastic sheeting, with the edges upturned to cover at least the bottom 12 inches of the adjoining wall(s). Wall covering shall consist of a minimum of two layers of four mil thick plastic sheeting. Wall covering shall extend from ceiling to floor and overlap the upturned floor coverings without protruding onto the floor. Duct tape or the equivalent shall be used to seal the seams in the plastic sheeting at the wall-to-floor joints.

a. Exception to Covering Requirement Where Surfaces Are Impervious. Compliance with 310 CMR 7.15(7)(c)5. is not required where floors and walls are covered by ceramic tile or other impervious materials that are free from holes, drains, cracks, fissures or other openings and which may be thoroughly decontaminated by washing at the conclusion of the work, provided that such action does not result in the passage of asbestos fibers from the work area.

b. Exception to Covering Requirement for Abatement Surfaces. Compliance with 310 CMR 7.15(7)(c)5. is not required for those floor, ceiling and wall surfaces from which asbestos coverings are removed.

c. Exception to Wall Surface Covering Requirement Where Glovebags Are Used. Covering of wall is optional for asbestos abatement activities where glovebags are used as the sole means of removal or repair, provided that the work area is isolated in accordance with 310 CMR 7.15(7)(c)4., that all moveable objects in the work area are removed in accordance with 310 CMR 7.15(7)(c)2., that immoveable objects remaining in the work area are covered in accordance with 310 CMR 7.15(7)(c)2., that immoveable objects remaining in the work area are covered in accordance with 310 CMR 7.15(7)(c)3., and that all other relevant requirements of 310 CMR 7.15(7)(c)1. through 4. are met. Where glovebags are used, the floor of the work area shall be covered with a minimum of one layer of six mil thick plastic sheeting.

6. <u>Covering of Ceiling Surfaces</u>. Ceiling surfaces within the work area shall be covered with a minimum of two layers of four mil thick plastic sheeting or shall be cleaned and decontaminated by wet wiping and HEPA-vacuuming in accordance with 310 CMR 7.15(7)(f)4.

(d) Equipment Decontamination Requirements. No equipment, supplies or materials (except properly containerized waste material) shall be removed from an asbestos work area, unless such equipment, supplies or materials have been thoroughly cleaned and are free of asbestos debris. Where decontamination is not feasible, such materials shall be wrapped in a minimum of two layers of six mil thick polyethylene sheeting with all joints, seams and overlaps sealed with duct tape or equivalent, or containerized in a metal, plastic or fiber drum with a locking lid. Said wrapped equipment, supplies or materials shall be labeled as being ACWM prior to removal from the work area. HEPA vacuums shall be emptied of contents prior to removal from the work area. Air filtration devices shall have used pre-filters removed and replaced with fresh filters prior to removal from the work area. Used HEPA filters and pre-filters shall be disposed of as ACWM.

(e) <u>Requirements for Work Area Ventilation System</u>.

1. A HEPA-filtered work area ventilation system shall be used to maintain a reduced atmospheric pressure of at least -0.02 column inches of water pressure differential within the contained work area.

2. The HEPA system shall be in operation at all times from the commencement of the asbestos project until the requirements of 310 CMR 7.15(8) have been met.

3. The ventilation equipment utilized shall be of sufficient capacity to provide a minimum of four air changes per hour and shall be equipped with an operating alarm system capable of indicating when the unit is not working properly, and utilizing a clean filter specified for that unit and capable of filtering 0.3 micron particles with 99.97 % efficiency.

a. No later than June 20, 2017 the operating alarm system shall be an audible and visual alarm system capable of indicating the unit is working properly, and utilizing a clean filter specified for that unit and capable of filtering 0.3 micron particles with 99.97 % efficiency.

4. The HEPA system units shall be operated in accordance with Appendix J of *EPA Guidance Document* EPA 560/5-85-024.

- 5. Make-up air entering the work area shall pass through the decontamination system.
- Exhaust air shall be HEPA-filtered before being discharged outside of the work area.
 a. Exhaust air tubes or ducts associated with the work area ventilation system shall be free of leaks.

b. Whenever feasible, exhaust air shall be discharged to the outside of the building. If access to the outside is not available, exhaust air may be discharged to an area within the building, but in no case shall exhaust air be discharged into any occupied areas of the building or into any areas of the building which contain exposed or damaged asbestos.

7. Exception to Work Area Ventilation System Requirement Where Glovebags Are Used. Compliance with 310 CMR 7.15(7)(e) is not required for asbestos abatement

activities where glovebags are used as the sole means of abatement removal or repair. (f) <u>Removal and Cleanup Requirements</u>. Removal of ACM from facility components shall be conducted within the work area at the site of origin as described in 310 CMR 7.15(7)(f)1. through 5.

 <u>Wetting of ACM</u>. Prior to removal, all ACM shall be adequately wetted with amended water. Amended water shall not be applied in amounts that will cause run-off or leakage of the water from the work area. Once removed, ACM shall be kept adequately wet until and after it is placed into containers pursuant to 310 CMR 7.15(15).
 <u>Removal of ACM Being Removed as Units or in Sections</u>. Facility component(s), covered or coated with ACM, being removed as units or in sections, shall be adequately wetted, carefully lowered to the floor level as units or sections and abated within the work area.

3. <u>Containerization of ACWM</u>. All ACWM within the work area shall be promptly cleaned up and placed into leak-tight containers as described in 310 CMR 7.15(7)(f)3.a. through c. Containerized ACWM shall be removed from the work area at least once per shift and stored in secured, totally enclosed vehicles or containers that are designed, constructed, and operated to prevent spills, leaks, or emissions in accordance with 310 CMR 7.15(15) through (17).

a. ACM and ACWM not containing components with sharp edges shall be containerized in two plastic bags (six mil minimum thickness each bag, one inside the other) or in leak-proof metal, plastic or plastic lined drums with locking lids.

b. ACM and ACWM with sharp-edge components shall be contained in leak-proof metal, plastic or plastic-lined drums with locking lids or plastic lined boxes.

c. Large components removed intact shall be wrapped in a minimum of two layers of six mil thick polyethylene sheeting with all joints and seams sealed with duct tape or equivalent, and labeled as ACWM prior to removal from the contained work area.

4. <u>Clean-up</u>. Following an asbestos abatement activity, all contaminated surfaces within the work area shall be decontaminated using HEPA-vacuuming or wet cleaning techniques. All equipment and materials used and all surfaces from which ACM has been removed shall be decontaminated. An inch of soil shall be removed from dirt floors and disposed of as ACWM. Clean-up shall be to the level of no visible debris.

5. <u>Removal of Work Area Barriers and Work Area Ventilation Systems</u>. The conditions described in 310 CMR 7.15(7)(f)5.a through c. shall be maintained until such time as the visual inspection requirements of 310 CMR 7.15(8) are met:

- a. all work area barriers remain in place;
- b. work area ventilation systems (if required) remain in operation; and
- c. all other work practice standards established by 310 CMR 7.15 are met.

(8) <u>Visual Inspection Requirements</u>. With the exception of the owner of an Owner-occupied, Single-family Residence who performs asbestos abatement activities at the owner's residence involving solely non-friable ACM, in addition to the specific asbestos abatement work practice standards set forth at 310 CMR 7.15(7), upon completion of an asbestos abatement activity, the owner/operator shall ensure that the following visual inspection procedures are performed for all asbestos abatement activities. The visual inspection shall be performed only by an asbestos project monitor. Public and private utility owners/operators of underground asbestos cement pipes in their system networks shall comply with the provisions of 310 CMR 7.15(12A)(d) in *lieu* of 310 CMR 7.15(8).

(a) An asbestos project monitor shall inspect all surfaces within the work area for visible debris.

(b) Should any visible debris be found in the work area, it shall be repeatedly cleaned by the asbestos contractor in accordance with 310 CMR 7.15 until there is no visible debris.

(9) <u>Requirements for Asbestos Glovebag Operations</u>. The owner/operator of a facility or facility component where asbestos abatement activities involving glovebag operations are conducted shall ensure that the following requirements are met:

(a) For activities that disturb friable ACM, no visible emissions shall be discharged to the outside air during the collection, processing, packaging or transporting of any ACM or ACWM.

(b) Glovebags shall be used only on those facility components for which they are specifically designed and they shall not be modified for use on any other type of facility component. Glovebags shall be constructed of six mil thick (minimum) plastic sheeting and be seamless at the bottom.

(c) Glovebags shall be used only once and shall not be moved along the facility component from where they are initially applied.

(d) The work area shall be isolated in accordance with 310 CMR 7.15(7)(c)5.c. and cleaned of visible debris by wet wiping or HEPA-vacuuming prior to installation of the glovebag.

(e) Glovebags shall be installed so as to form an airtight covering around the facility components on which they are to be used. Any friable ACM in the immediate area of glovebag installation shall be wrapped and sealed in two layers of six mil (0.006 inch) thick plastic sheeting or otherwise maintained intact prior to glovebag installation. All openings in the glovebag shall be sealed against leakage with duct tape or the equivalent material.

(f) ACM shall be adequately wetted with amended water prior to its removal and shall be maintained in an adequately wet condition inside the glovebag.

(g) Any ACM that has been exposed as a result of the glovebag operation shall be removed, encapsulated or enclosed so as to prevent the leakage of asbestos fibers prior to the removal of the glovebag.

(h) All surfaces inside the glovebag from which ACM has been removed and the upper portions of the glovebag itself shall be cleaned free of visible debris prior to removal of the glovebag.

(i) Debris shall be isolated in the bottom of the glovebag by twisting the bag so as to form a closure in the middle. This closure shall then be taped around with duct tape or the equivalent. Air in the glovebag shall be exhausted with a HEPA vacuum cleaner prior to its removal.

(j) Following removal from the facility component, the glovebag and its contents shall be containerized in accordance with 310 CMR 7.15(15) and 310 CMR 19.000: *Solid Waste Management*.

(10) <u>Requirements for the Removal of Asbestos-containing Asphaltic Roofing and Siding Materials</u>.

(a) If the requirements of 310 CMR 7.15(10) are followed, asbestos-containing asphaltic roofing and siding may be disposed of in any landfill permitted by the Department to accept solid waste pursuant to 310 CMR 19.000: *Solid Waste Management*. If the asbestos-containing asphaltic roofing and siding are not handled in accordance with 310 CMR 7.15(10) or if the Department has determined that asbestos fibers may be released during handling, removal or disposal, then the materials shall be disposed of in a landfill that has obtained a special waste permit to accept asbestos wastes or is managing such wastes in accordance with 310 CMR 19.061: *Special Waste*.

(b) Roof level heating and ventilation air intakes shall be isolated by covering the intakes with six mil thickness plastic sheeting prior to the start of the removal work.

(c) Asphaltic shingles and felts shall be removed intact to the greatest extent feasible.

(d) Asphaltic shingles and felts that are not intact, or will be rendered non-intact, shall be adequately wet during removal.

(e) Where cutting machines are used in the removal of asphaltic shingles and felts, said cutting machines shall be equipped with a HEPA vacuum to capture dust produced by the cutting process. Cutting machines that are not equipped with a HEPA vacuum to capture dust produced by the cutting process shall only be used inside a work area for which containment sufficient to prevent visible emissions of fugitive dust to the ambient air has been established.

(f) Where cutting machines are used in the removal of asphaltic shingles and felts, the material shall be adequately wetted throughout the cutting process.

(g) Dust produced by power roof cutters operating on aggregate surfaces shall be removed by HEPA-vacuuming. Dust produced by power roof cutters operating on non-aggregate, smooth surfaces shall be removed by HEPA-vacuuming or wet wiping along the cut line.

(h) Asbestos-containing shingles or felts shall not be dropped or thrown to the ground. Unless the material is carried or passed to the ground by hand, it shall be lowered to the ground by crane or hoist or transferred in dust-tight chutes.

(i) Intact asphaltic shingles and felts shall be lowered to the ground prior to the end of each work shift. Non-intact asphaltic shingles and felts shall be kept adequately wet at all times while on the roof. Non-intact asphaltic shingles and felts shall be placed in an impermeable waste bag (six mil thickness) or wrapped in plastic sheeting (minimum six mil thickness), sealed with duct tape or the equivalent and lowered to the ground prior to the end of each work shift.

(j) For activities that disturb friable ACM, no visible emissions shall be discharged to the outside air during the collection, processing, packaging or transporting of any ACM or ACWM.

(11) <u>Requirements for Window Painting and/or Repair Work That Result in the Disturbance</u> of Asbestos-containing Glazing and/or Caulking Compounds.

(a) A work area defined at 310 CMR 7.15(1) shall be established that extends outward from the exterior side of the building or facility where the window painting and/or repair work that will result in disturbance of asbestos-containing glazing and/or caulking compounds is to take place. Said work area shall be large enough to encompass all areas where dust, debris or waste generated during the operation are expected to accumulate and areas where there is a reasonable possibility that airborne levels of asbestos could be elevated, as well as any area occupied by equipment.

(b) Windows, doors and other openings on the side of the building where the window repair/painting work that will result in disturbance of asbestos-containing glazing and/or caulking compounds is occurring shall be closed while the work is occurring and air conditioners on the same side of the building shall be turned off.

(c) Tarpaulin or plastic sheeting shall be spread on the ground under the window(s) being painted or repaired. Said tarpaulin or plastic sheeting shall extend away from the edge of the building and to either side of the work area a sufficient distance to catch any debris generated by the work operation. Tarpaulin or sheeting shall be cleaned of accumulated debris no later than the end of each work shift.

(d) If the entire sash is to be removed during painting or repair operations, window openings shall be sealed on the inside of the building with six mil thickness polyethylene sheeting in a manner sufficient to prevent leakage of dust or debris to interior spaces. Where less than an entire sash is to be replaced, covering and sealing of interior surfaces of the sash that encompasses the area of the panes being worked on may be performed in *lieu* of sealing the entire sash.

(e) Prior to commencing removal or repair of asbestos-containing glazing compound or caulk, the exterior and interior window well and sash areas shall be pre-cleaned by HEPA-vacuuming and/or wet wiping.

(f) Asbestos-containing glazing compound and caulk shall be adequately wet with amended water prior to removal or repair. All pieces or particles of glazing compound and caulk shall be removed using a HEPA vacuum and/or using a wet wipe collection method.

(g) The work area, including ground covers and equipment, shall be cleaned of visible debris at the end of each workday.

(h) Upon completion of the removal of the asbestos-containing glazing compound and/or caulk, the sash and sill areas shall again be cleaned by HEPA-vacuuming and/or wiped with a wet sponge or cloth. Polyethylene sheeting (where used) shall be removed from the interior of the window and disposed of as ACWM in accordance with 310 CMR 7.15(15) through (18), and the window well shall be cleaned by HEPA-vacuuming and/or wet wiping.

(i) All equipment utilized in the work operation shall be cleaned of visible dust and debris by HEPA-vacuuming and/or wet wiping prior to removal from the work area. Wet wipes shall be managed as ACWM.

(j) The tarpaulin or plastic sheeting below the window(s) shall be cleaned of visible dust and debris by HEPA-vacuuming and/or wet wiping. Dry sweeping shall not be allowed. Ground covers that are free of visible debris and dust may be reused or disposed as solid waste in accordance with 310 CMR 19.000: *Solid Waste Management*.

(k) Barrier tape may be disposed as solid waste in accordance with 310 CMR 19.000: *Solid Waste Management*.

(1) If disposable protective clothing is used, it shall be disposed as ACWM in accordance with 310 CMR 7.15(15) through (18).

(m) Wetted window caulking and glazing and other ACM shall be collected and sealed into a six mil plastic bag that is placed in a leak-tight container for disposal as ACWM in accordance with 310 CMR 7.15(15) through (18).

(n) If an entire sash is to be removed and disposed of as ACWM, then the adequately wetted sash shall be removed intact, wrapped in a minimum of two layers of six mil thick polyethylene sheeting with all joints and seams sealed with duct tape.

(o) At the conclusion of the work, the work site shall be inspected for paint dust or chip debris and asbestos-containing glazing compound or caulk. The work area shall be re-cleaned until no such debris is found.

(p) All waste shall be labeled as ACWM prior to removal from the work area.

(q) Visual inspection of the work area required by 310 CMR 7.15(8) shall be conducted by a person who has completed the asbestos operations and maintenance projects worker training specified in 453 CMR 6.00: *The Removal, Containment or Encapsulation of Asbestos.*

(r) For activities that disturb friable ACM, no visible emissions shall be discharged to the outside air during the collection, processing, packaging, or transporting of any ACM or ACWM.

(12) <u>Requirements for Exterior Asbestos-containing Cementitious Shingles, Siding and Panels.</u>
 (a) Asbestos cement shingles, siding and panels shall not be broken, sanded, sawed or drilled at any time during removal or subsequent handling.

(b) Tarpaulin or plastic sheeting shall be spread on the ground under the areas where the shingles, siding or panels are being removed. Said tarpaulin or plastic sheeting shall extend away from the edge of the building and to either side of the work area a sufficient distance to catch any debris generated by the work operation. Tarpaulin or sheeting shall be cleaned of accumulated debris no later than the end of each work shift.

(c) Openings on the side of the building where the asbestos abatement activities are taking place shall be closed or sealed with polyethylene sheeting and duct taped in a manner sufficient to prevent leakage of dust or debris to interior spaces.

(d) Nails securing shingles shall be cut or pulled to allow intact shingle removal. Cementitious asbestos-containing shingles, siding and panels shall be removed whole and intact to the greatest extent feasible. Methods likely to break shingles, siding or panels during removal shall not be used.

(e) Each panel, siding or shingle shall be adequately wetted with amended water prior to removal.

(f) Shingles, siding or panels shall be carefully lowered to the ground in a manner to avoid breakage.

(g) Removed shingles, siding or panels and associated debris shall be containerized in leak-proof metal, plastic or plastic-lined drums or boxes or wrapped with double thickness plastic sheeting (six mil minimum thickness each layer) sealed with duct tape no later than the end of each work shift.

(h) Uncontained asbestos cement shingles, siding or panels shall not be bulk loaded into a truck, dumpster or trailer for storage, transport or disposal.

(i) For activities that disturb friable ACM, no visible emissions shall be discharged to the outside air during the collection, processing, packaging or transporting of any ACM or ACWM.

(12A) <u>Requirements for Underground Asbestos-cement Pipe</u>.

(a) <u>Applicability</u>.

1. The requirements of 310 CMR 7.15(12A)(b) and (d) shall apply only to repair and replacement of underground asbestos-cement pipe that is owned and/or operated by public and private utilities (*e.g.*, pipes conveying drinking water, sanitary sewage, storm water, electricity, and gas). Repair and replacement of all other underground cement pipe shall comply with the survey requirements at 310 CMR 7.15(4) and the visual inspection requirements of 310 CMR 7.15(8) if the pipe is found to be ACM.

a. Public and private utility owners/operators of underground asbestos-cement pipe covered by 310 CMR 7.15(12A) shall comply with all the requirements of 310 CMR 7.15(12A)(b) in *lieu* of 310 CMR 7.15(4), Survey Requirements.

b. Public and private utility owners/operators of underground asbestos-cement pipe shall comply with all the requirements of 310 CMR 7.15(12A)(d) in *lieu* of 310 CMR 7.15(8), Visual Inspection Requirements.

2. All owners/operators shall comply with all the requirements of 310 CMR 7.15(12A)(c) in *lieu* of 310 CMR 7.15(7)(c) and (e), General Asbestos Abatement Work Practice Standards, when conducting asbestos abatement activity involving underground asbestos-cement pipe.

3. All owners/operators shall comply with all other requirements of 310 CMR 7.15 when conducting asbestos abatement activity involving underground asbestos-cement pipe.

(b) Survey.

1. The public and private utility owner/operator shall thoroughly inspect the facility, facility component or any part thereof where the demolition or renovation will occur, to identify the presence, location and amount of any asbestos-cement pipe. If the pipe is not identified as asbestos-cement pipe, the owner/operator shall comply with 310 CMR 7.15(4). The thorough inspection shall be satisfied by one of the following:

a. As-built plans or other documents, reviewed by the owner/operator, identifying whether particular underground cement pipe or parts thereof that may be affected by a repair or replacement project is asbestos-cement pipe, provided that the documentation has been updated to reflect any repairs or alterations; or

b. Visual identification conducted by a person who meets the requirements of 310 CMR 7.15(12A)(b)2. through their field observations of the underground asbestos-cement pipe to be worked on including, but not limited to, the manufacturer's brand-label markings indicating transite material or the source of the pipe; or

c. A presumption by the owner/operator that the underground cement pipe is asbestos-cement pipe.

2. The survey in 310 CMR 7.15(12A)(b)1.b. shall be conducted by a person who has successfully completed a training course that has been approved in writing by the Department of Labor Standards, that specifically addresses, at a minimum, underground asbestos-cement pipe and the survey requirements in 310 CMR 7.15(12A)(b).

3. The person conducting the survey shall document in writing, in a format prescribed by the Department, the method used to determine whether the cement pipe to be worked on is an ACM including, but not limited to, identification of specific documents, the specific features of the pipe that were visually observed and/or other information that was relied upon to make said determination. Owners/operators shall keep such documentation at their regular place of business for two years from the date of the survey and provide it to the Department upon request.

(c) <u>Specific Work Practice Requirements for Underground Asbestos-cement Pipe</u>. Owners/ operators shall ensure the work practice standards listed below are followed:

1. Asbestos-cement pipe shall be handled in a manner that will minimize the risk of making it friable ACM or releasing asbestos dust into the environment.

2. At the start of work involving asbestos-cement pipe, owners/operators shall ensure that:

a. The asbestos-cement pipe shall be exposed with minimal disturbance.

b. Mechanical excavation shall not be used within six inches of the asbestos-cement pipe.

c. The soil within six inches of the asbestos-cement pipe shall be uncovered by hand or with a shovel.

d. Once the pipe has been exposed, an assessment shall be made before proceeding to determine whether the asbestos-cement pipe is damaged, cracked or broken to determine whether the requirements of 310 CMR 7.15(12A)(c)3. or 4. apply to the asbestos abatement activity.

3. If the assessment shows that the asbestos-cement pipe is intact and not deteriorated: a. Place six mil (0.006 inch) thick polyethylene sheeting under the asbestos-cement pipe to prevent soil contamination.

Adequately wet the asbestos-cement pipe with amended water using surfactant or liquid soap before and during removal to avoid creating airborne dust.

b. Separate the asbestos-cement pipe at the nearest coupling (bell or compression fitting).

c. Slide the asbestos-cement pipe apart at the joints (no saw cutting) or use other methods that do not cause the asbestos-cement pipe to break, become friable ACM or otherwise create the potential to release asbestos fibers.

d. Containerizing the wet asbestos-cement pipe and other debris from the abatement in accordance with 310 CMR 7.15(7)(f)(3) may be done in the trench or adjacent to the trench.

e. If the trench is filled with water, the placement of polyethylene sheeting is not required.

4. If the asbestos-cement pipe is deteriorated or is not intact, or when the use of mechanical breakage with saws, snap or blade cutting, and/or tapping is necessary:

a. Place six mil (0.006 inch) thick polyethylene sheeting under the asbestos-cement pipe to prevent soil contamination.

b. Adequately wet asbestos-cement pipe with amended water where cutting or breaking will occur.

c. Saw cutting of asbestos-cement pipe shall only be conducted with a HEPA-shrouded vacuum attachment or wet cutting equipment, unless it is conducted within a small enclosure that isolates the area in which the saw cutting is being conducted to prevent the release of asbestos fibers to ambient air.

d. Wrap wet asbestos-cement pipe in two layers of six mil polyethylene sheeting, seal with duct tape and label (this may be done either in the trench or adjacent to the trench).

5. For activities that disturb friable ACM, no visible emissions shall be discharged to the outside air during the collection, processing, packaging or transporting of any ACM or ACWM.

(d) <u>Visual Inspection</u>. The final visual inspection shall be satisfied by complying with the following requirements:

1. The visual inspection shall be performed by a person who has successfully completed a training course, approved in writing by the Department of Labor Standards, that specifically addresses, at a minimum, underground asbestos-cement pipe and the requirements of the visual inspection in 310 CMR 7.15(12A)(d).

2. The person conducting the final visual inspection shall:

- a. Inspect the work area to ensure there was no visible debris remaining:
 - i. In the excavation trench;
 - ii. In soil excavated from the trench;

iii. In the surrounding area adjacent to the trench after the removal of the asbestos-cement pipe, and

iv. On any tools used during the removal/repair/replacement activities.

b. Ensure that all ACWM has been removed for proper storage/disposal.

3. The person who conducted the final visual inspection shall sign and date the documentation of the final inspection, in a format provided by the Department, as evidence that the inspection was performed and that the condition of "no remaining visible debris" was met. Owners/operators shall keep such documentation at their regular place of business for two years from the date of final visual inspection and provide it to the Department upon request.

(13) <u>Work Practice Standards for Asbestos Incidental Maintenance Projects or Work</u>. The owner/operator of a facility or facility component where an incidental maintenance project or work is conducted, as defined by 310 CMR 7.15(1), involving the removal or disturbance of asbestos-containing floor tile, or asbestos-containing gypsum wallboard/joint compound systems shall ensure that the following general work practice standards are met.

(a) <u>General Work Practice Standards for Incidental Maintenance Projects or Work</u>.

1. Barriers shall be constructed, as necessary, to insure that asbestos-containing dust released during work activities is contained within the work area. Glove bags, HEPA-shrouded tools and mini-enclosures are permitted in *lieu* of constructed barriers. 2. ACM shall be adequately wetted with amended water before it is disturbed, and it shall be kept adequately wet throughout the asbestos abatement activities until containerized in accordance with 310 CMR 7.15(7)(f)3.

3. Where ACM is being removed, it shall be removed in an intact state to the greatest extent feasible.

4. Where power tools are used to cut, chip or abrade an ACM, said power tools shall be equipped with HEPA-filtered local exhaust attachments specifically manufactured for the tools being used.

5. Any friable ACM exposed as a result of the asbestos abatement activities shall be removed or, if in suitable condition, encapsulated.

6. HEPA-vacuuming or wet cleaning shall be used to decontaminate the work area and any equipment used in the work operation until all surfaces are free of visible debris. The use of compressed air or dry-sweeping is prohibited.

7. HEPA vacuums shall be emptied and decontaminated in accordance with 310 CMR 7.15(7)(d).

8. All surfaces within the work area shall be visually inspected for dust, debris and other particulates residue in accordance with 310 CMR 7.15(8). The work area shall be repeatedly cleaned until there is no visible debris.

(b) <u>Requirements for the Removal of Asbestos Floor Tile as Incidental Maintenance</u> <u>Projects or Work</u>. Any person conducting an incidental maintenance project or work involving the removal of floor tile and related mastics shall presume that said materials contain asbestos, unless the results from an asbestos bulk analysis or manufacturer's specifications indicate otherwise.

1. General Requirements:

a. Asbestos floor tile and related mastics being removed shall not be sanded, dry-swept, dry-scraped, drilled, sawed, abrasive-blasted, mechanically chipped or pulverized during said removal work.

b. All furniture and other movable objects shall be removed from the work area before removal begins. All non-movable objects in the work area shall be wrapped or covered with four mil (0.004 inch minimum) plastic sheeting. Plastic sheet coverings shall be completely sealed with duct tape or the equivalent.

c. The entire floor surface from which asbestos floor tile is to be removed shall be vacuumed with a HEPA vacuum prior to removal of the floor tile.

2. <u>Specific Requirements for Removal of Asbestos Floor Tile</u>. In addition to the General Requirements of 310 CMR 7.15(13)(b)1., the following specific requirements for the removal of asbestos floor tile shall also be followed:

a. Floor tiles shall be adequately wetted with amended water prior to removal and kept adequately wet throughout the removal process.

b. Floor tiles shall be individually removed by prying upward with hand scrapers or similar hand-held tools in a manner which minimizes breakage. Removal with spud-bars, ice scrapers or similar implements is prohibited. Where tiles do not readily release from underlying mastic, the removal tool may be struck with a hammer to facilitate release. Floor tiles shall be removed in an intact state to the extent feasible.

c. Tile surfaces may be heated with a heat gun or other heat source to soften the adhesive and facilitate tile removal. Where heat is used to facilitate removal, the wetting of tile specified in 310 CMR 7.15(13)(b)2.a. may be delayed until after release of the tile from the floor surface.

d. Removed floor tiles and ACWM within the work area shall be promptly cleaned up and containerized while still adequately wet. Containerized ACM shall be removed from the work area at least once each working shift. Waste not containing components with sharp edges shall be containerized in two plastic bags (six mil minimum thickness each bag, one inside the other) or in metal, plastic or fiber drums with locking lids. Floor tile with sharp edges and sharp-edged components likely to puncture the plastic bags specified above shall be contained in leak-proof metal, plastic or plastic lined drums or boxes.

e. Following containerization of floor tile and associated debris, the floor surface shall be HEPA-vacuumed while still wet and then allowed to dry.

f. Immediately after drying, the floor surface shall be HEPA-vacuumed again before the visual inspection required by 310 CMR 7.15(8) is performed.

(c) <u>Specific Requirements for the Removal or Repair of Asbestos-containing Gypsum</u> <u>Wallboard and/or Joint Compound</u>. Any person conducting an incidental maintenance project or work involving the removal of gypsum wallboard and/or joint compound shall presume that said materials contain asbestos unless the results from an asbestos bulk analysis or manufacturer's specifications indicate otherwise.

1. Where removal of sections of gypsum wallboard and/or joint compound is required, said sections shall be removed intact to the greatest extent feasible.

2. Where gypsum wallboard and/or joint compound must be cut to allow removal or refitting of sections, only the minimum number of cuts necessary to accomplish said removal or refitting shall be permitted.

3. Manually-operated tools or power tools fitted with HEPA-filtered vacuum attachments shall be used for the cutting or resurfacing of asbestos-containing gypsum wallboard and/or joint compound.

4. Where manually-operated tools are used for the cutting or resurfacing of gypsum wallboard and/or joint compound, the area being cut shall be adequately wetted with amended water during the cutting operation.

5. Dry sanding of asbestos-containing gypsum wallboard and/or joint compound during refinishing operations is prohibited; only wet sanding is permitted.

6. Where holes of $\frac{1}{2}$ inch or less in diameter are to be drilled through asbestos gypsum wallboard and/or joint compound, the area encompassing the hole shall be covered with a sufficient quantity of shaving foam to catch the generated chips and dust. Where holes of greater than $\frac{1}{2}$ inch are to be drilled, the area being drilled shall be adequately wetted with amended water during the drilling operation.

(14) <u>Nontraditional Asbestos Abatement Work Practice Approvals</u>.

(a) A person may apply to the Department to utilize Nontraditional Asbestos Abatement Work Practices that result in the need to deviate from section(s) of 310 CMR 7.15 if one or more of the following circumstances or situations occur:

1. Demolition of a facility under an order of a state or local government agency issued because the facility is structurally unsound and in danger of imminent collapse;

2. Where ACM or ACWM was not accessible for testing and was, therefore, not discovered until after demolition began and, as a result of the demolition, the material cannot be safely removed;

3. Where asbestos abatement activity is conducted as part of an emergency renovation operation;

4. Where asbestos abatement activity is conducted to clean up and decontaminate a facility or portion of a facility as a result of:

a. asbestos abatement activities not conducted in compliance with 310 CMR 7.15, or

b. ACM deterioration that, if not immediately attended to, presents a safety or public health hazard;

5. For a facility that is being renovated, where wetting would unavoidably damage equipment or present a safety hazard; or

6. Bulk loading ACM and/or ACWM.

(b) A Nontraditional Asbestos Abatement Work Practice Approval, if granted, shall apply to a specific facility or facility component and shall be nontransferable.

(c) The Department shall, in its sole discretion, only grant a Nontraditional Asbestos Abatement Work Practice Approval, to the extent and for the duration of time during which the Department is persuaded that the activities allowed by the approval will:

1. result in no discharge of visible emissions to the outside air;

2. keep ACM and ACWM adequately wet until it is placed and sealed into containers pursuant to 310 CMR 7.15(15);

3. comply with all other applicable requirements of 310 CMR 7.15; and

4. be consistent with the requirements of the laws and regulations cited in 310 CMR 7.15(2)(b).

(d) Any person applying for a Nontraditional Asbestos Abatement Work Practice Approval shall submit an application to the Department on a Department approved form. The application shall include:

1. a description of the need and justification for each requirement of 310 CMR 7.15 for which a deviation is sought;

2. a description of each nontraditional work practice proposed;

3. a demonstration that the deviations from 310 CMR 7.15 and alternatives proposed will not cause any visible emissions to the outside air and will not pose significant risk to public health, safety or the environment;

4. all required information specified in the application form; and

5. any additional information requested by the Department.

(e) The application shall be accompanied by the applicable fee and shall be legible. An incomplete or illegible application will not be accepted or approved and shall not constitute compliance with 310 CMR 7.15.

(15) <u>Asbestos-containing Waste Material Packaging Requirements</u>. The owner/operator of a facility or facility component where any asbestos abatement activity is conducted shall comply with the following:

(a) Adequately wet ACWM obtained from air cleaning equipment or from removal operations.

(b) While adequately wet, containerize and seal the ACWM in leak-tight containers.

(c) Label the containers with the following information printed in letters of sufficient size and contrast so as to be readily visible and legible:

DANGER CONTAINS ASBESTOS FIBERS MAY CAUSE CANCER CAUSES DAMAGE TO LUNGS DO NOT BREATHE DUST AVOID CREATING DUST

Prior to June 1, 2015, the containers may be labeled with the following information in *lieu* of the labeling requirements above:

DANGER CONTAINS ASBESTOS FIBERS AVOID CREATING DUST CANCER AND LUNG DISEASE HAZARD

(d) In addition to the warning label requirement specified in 310 CMR 7.15(15)(c), each individual container and/or package of ACWM shall be labeled prior to being transported off the site of generation with the name of the waste generator, the location at which the waste was generated, and the date of generation.

(e) Bulk-loading of ACWM is not permitted without the Department's prior approval of a Nontraditional Asbestos Abatement Work Practice Application.

(16) Asbestos-containing Waste Material Transport Requirements.

(a) All ACWM shall be containerized pursuant to 310 CMR 7.15(15) prior to being transported.

(b) All ACWM shall be transported in totally enclosed vehicles or containers that are designed, constructed, and operated to prevent spills, leaks, or emissions.

(c) All ACWM shall be transported in conformance with 40 CFR Part 61 and applicable US Department of Transportation, OSHA and state and local regulations.

NON-TEXT PAGE

(17) <u>Asbestos-containing Waste Material Storage and Disposal Requirements</u>.

(a) The owner/operator of a facility or facility component where any asbestos abatement activity is conducted shall ensure that all ACWM generated from any asbestos abatement activity is properly disposed of at a landfill approved to accept such material. If within Massachusetts, such sites must be operated in accordance with 310 CMR 19.000: *Solid Waste Management*. If outside Massachusetts, such sites must be operated in accordance with applicable state and federal asbestos and landfill laws and regulations of the receiving state.

(b) ACWM shall be stored only at:

1. A location that is an approved refuse transfer station facility permitted or that is managing such wastes in accordance with 310 CMR 19.061: *Special Waste*; and/or

2. The site of generation of the ACWM while the asbestos abatement activity is ongoing and for up to 30 calendar days after completion of the asbestos abatement activity and the visual inspection requirements of 310 CMR 7.15(8) are met.

(c) No person shall dispose of ACWM at a location that is not a landfill approved to accept such material. If within Massachusetts, such sites must be operated in accordance with 310 CMR 19.000: *Solid Waste Management*. If outside Massachusetts, such sites must be operated in accordance with applicable state and federal asbestos and landfill laws and regulations of the receiving state.

(d) Intact and unbroken vinyl asbestos tile that is not coated with asbestos-containing mastic may be disposed of in any landfill permitted by the Department to accept solid waste pursuant to 310 CMR 19.000: *Solid Waste Management*.

(18) <u>Waste Shipment Records and Reports</u>.

(a) All ACWM shall be shipped via asbestos waste shipment records on a Department approved form that includes, but is not limited to, the following information:

1. The name, address and telephone number of the owner/operator of the facility or dumping ground where asbestos abatement activities have occurred;

2. The quantity and type (friable or non-friable) of the ACWM in cubic meters (cubic yards) and a description of the container used for shipment;

3. The name, address and telephone number of the person who conducted any asbestos abatement activity;

4. The name and telephone number of the disposal site operator;

5. The name and physical location of the disposal site;

6. The date transported;

7. The name, address, and telephone number of the transporter(s);

8. Certification by the owner/operator of the facility or dumping ground where asbestos abatement activities have occurred/where asbestos waste was generated that the contents of each shipment have been characterized, packaged, marked and labeled in accordance with 310 CMR 7.15;

9. Signature of each transporter confirming the contents of each shipment are in all respects in the proper condition for transport according to applicable international, federal, state and local regulations;

10. Signature by the receiving disposal facility confirming that:

a. the quantity of ACWM listed on the waste shipment record is the same as the quantity accepted for disposal; and

b. it holds appropriate permits and/or authorizations to accept for disposal ACWM described on waste shipment records; and

11. Such other information as the Department requires.

(b) If a copy of the waste shipment record, signed by the owner/operator of the designated disposal site, is not received by the owner/operator of the facility or dumping ground where asbestos abatement activities have occurred/where the ACWM was generated within 35 days of the date the waste leaves the site of origin, the owner/operator of the facility or dumping ground where the asbestos abatement activities have occurred and/or where the ACWM was generated shall contact the transporter and/or operator of the designated disposal site to determine the status of the waste shipment.

(c) The owner/operator of the facility or dumping ground where the asbestos abatement activities have occurred and/or where the ACWM was generated shall report, in writing, to the Department if a copy of the waste shipment record, signed by the owner/operator of the designated waste disposal site, is not received by the owner/operator of the facility or dumping ground where the asbestos abatement activities have occurred and/or where the

ACWM was generated within 45 days of the date the waste was accepted by the initial transporter. The report shall include the following information:

1. A copy of the waste shipment record for which a confirmation of delivery was not received; and

2. A cover letter signed by the owner/operator of the facility or dumping ground explaining the efforts taken to locate the asbestos waste shipment records in accordance with 310 CMR 7.15. Compliance with the foregoing reporting requirements shall not be construed to relieve the owner/operator of the facility or dumping ground of the obligation to maintain waste shipment records in accordance with 310 CMR 7.15.

(d) The owner/operator of the facility or dumping ground where the asbestos abatement activities have occurred and/or where the ACWM was generated shall report, in writing, to the Department if the waste shipment record is modified after the date the waste is accepted by the initial transporter. The report shall include a description of the amendment or modification together with copies of the waste shipment record before and after amendment or modification.

(e) The owner/operator of the facility or dumping ground where the asbestos abatement activities have occurred and/or where the ACWM was generated, the transporter, and the owner/operator of the designated waste disposal site shall retain a copy of all waste shipment records, including a copy of the waste shipment record signed by the owner/operator of the designated waste disposal site, for at least two years. All such parties shall furnish upon request, and make available for inspection by Department personnel, all records required under 310 CMR 7.15(18).

(19) <u>General Enforcement Provisions</u>. In addition to the Department's enforcement authority under M.G.L. c. 111, §§ 142A through O, M.G.L. c. 21A § 16 and other applicable laws and regulations, the provisions of 310 CMR 7.15 are subject to the enforcement provisions of 310 CMR 7.52.

7.16: U Reduction of Single Occupant Commuter Vehicle Use

(1) Commencing with the effective date of 310 CMR 7.16 each affected facility (except as provided below) shall diligently and expeditiously implement and thereafter continuously maintain the following mandatory measures which are designed to achieve a goal of reducing the number of single occupant commuter vehicles customarily commuting daily to each employment facility as of its base date by 25% or as adjusted pursuant to 310 CMR 7.16(7):

(a) making available to commuters any pass program offered by the area transit authority, if any commuter to the facility uses the public transit facilities of such Authority as part of his daily commuting trip, including making all administrative arrangements for commuters to purchase the pass and thereby participate in the pass program and encouraging commuters to participate by such means as publicizing the availability of the pass program and the cost advantages thereof.

(b) posting in a conspicuous place or places the schedules, rates and routes of every bus which serves the facility including the services offered by the area transit authority and any privately or publicly operated services which may exist in the immediate vicinity of the employer.

(c) providing incentives for bicycle commuting such as secure locking facilities and removal of restrictive rules against bicycle usage at the facility.

(d) negotiating with authorities in charge of bus lines serving the facility for improved service to the facility, including providing information on the location and density of employees' residences and commuting times to be used for route planning by local transit authorities.

(e) conducting a carpooling program (either alone or in cooperation with neighboring facilities) which:

1. matches on a regularly recurring basis (not less often than once every 12 months) the names, addresses, and suitable contact information of all commuters who commute in single-occupant commuter vehicles or carpool to a facility or group of neighboring facilities and who express interest in carpooling, so that such commuters with similar daily travel patterns are informed and aware of each other for the purpose of forming carpools;

2. continuously publicizes the advantages of carpooling, both in terms of savings of fuel and money and any incentive in effect at the facility;

3. creates incentives for carpool formation by providing persons who carpool with first call on available parking space or spaces which are closest to entrances to the facility; and,

4. provides information for carpooling program to prospective and new employees, and offers new employees the opportunity to participate in such program.

(f) In the case of an employment facility with 1,000 or more employees, implementing a vanpool program which shall include the following elements:

1. The employer shall:

a. cooperate with a non-profit third-party vanpool program and offer their employees the opportunity to participate in such a program; or

b. post in a conspicuous place and regularly notify all employees of an outstanding offer to acquire (by purchase, lease or otherwise), insure and make available to any group of at least ten employees a van for their use as a vanpool. Such offer, a copy of which shall be sent to the Secretary at the time of the employer's first updated report, shall include the procedures by which vanpools are offered and the conditions upon which the offer is contingent, including acceptance by the prospective driver of the responsibility for providing regular service, training backup drivers, and arranging vehicle maintenance, and acceptance by each other member of the prospective group of responsibility for payment of a *pro rata* share of all direct costs (such as rental charge, licensing costs, insurance, tolls, fuel and repair) and indirect costs (such as depreciation and interest on borrowed funds) of the operation and maintenance of the vehicle.

c. notify the Secretary when it is learned that ten or more employees are interested in forming a vanpool.

2. The employer shall analyze and continuously publicize the advantages of vanpooling, including any resulting cost savings, convenience and any incentives in effect at the facility. Such incentives shall include providing persons who vanpool with first call on available parking spaces or spaces which are closest to entrances to the facility.

3. Matching for the vanpool program should be coordinated with the carpool matching program, to facilitate the formation of vanpools.

Upon reaching such a 25% goal, as stated at the beginning of 310 CMR 7.16, such employer shall thereafter continue such a program in such a manner as to aim at maintaining the ratio of single-occupant commuter vehicles to total commuters customarily arriving at its facility at or below the ratio referred to in 310 CMR 7.16(4)(e). If an employer or educational institution reaches and thereafter maintains said goal by implementing less than all the measures in 310 CMR 7.16(1), it shall not be subject to a requirement to implement the remainder of such measures.

Commencing with the effective date of 301 CMR 7.00 smaller employers shall also cooperate with MASSPOOL in its efforts to promote and organize mulit-employer ridesharing activities.

(2) MB. The base date and the date for submittal of the base date report for all existing affected facilities shall be as provided in 40 CFR 52.1161, June 12, 1975. 310 CMR 7.00 established the base date for all existing affected facilities as October 1, 1975, except as provided below, and required a facility with more than 250 commuters to submit at least a base date report to the Secretary on October 15, 1975. The base date for an affected facility which becomes subject to the requirements of 310 CMR 7.16 upon its effective date shall be October 15, 1979, except as provided below. Each employer with a base date of October 15, 1979 shall submit to the Secretary their base data report for each affected facility by November 15, 1979. The base date for an affected facility which attains an employment level of 250 or more employees after the effective date of 310 CMR 7.16 shall be the date six months after it reaches such a level, except as provided below, and its base date report shall be due on the next date not more than six months later than is specified for any report or updated report by any existing facility. Where an employer or educational institution can establish to the satisfaction of the Secretary that a facility had commenced measures to reduce the number of single-occupant commuter vehicles customarily arriving daily at an earlier date, the Secretary may approve the use of such earlier date as the base date for such facility. In lieu of establishing the actual number of such vehicles on such earlier date, an employer or educational institution may assume for the purpose of 310 CMR 7.16(2) that prior to such earlier date 20% of all commuters to such facility who arrived by motor vehicle other than mass transit customarily arrived by means other than single-occupant commuter vehicles.

(3) <u>PV</u>. The base date for all existing affected facilities shall be June 15, 1977, except as provided below. By June 30, 1977 each employer with a base date of June 15, 1977 shall submit to the Secretary their base date report for each affected facility. The base date for an affected facility which becomes subject to the requirements of 310 CMR 7.16 upon its effective date shall be October 15, 1979, except as provided below. Each employer with a base date of October 15, 1979 shall submit to the Secretary their base date report for each affected facility by November 15, 1979. The base date for an affected facility which attains an employment level of 250 or more employees after the effective date of 310 CMR 7.00 shall be the date six months after it reaches such a level, except as provided below, and its base date report shall be due on the next date not more than six months later than is specified for any report or updated report by an existing facility. Where an employer or educational institution can establish to the satisfaction of the Secretary that a facility had commenced measures to reduce the number of single-occupant commuter vehicles customarily arriving daily at an earlier date, the Secretary may approve the use of such earlier date as the base date for such facility. In lieu of establishing the actual number of such vehicles on such earlier date, an employer or educational institution may assume for the purpose of 310 CMR 7.16(3) that prior to such earlier date 20% of all commuters to such facility who arrived by motor vehicle other than mass transit customarily arrived by means other than single-occupant commuter vehicles.

(4) <u>B, CM, MV, SM</u>. The base date for all existing affected facilities shall be October 15, 1979, except as provided below. By November 15, 1979, each employer shall submit to the Secretary their base date report for each affected facility. The base date for an employment facility which attains an employment level of 150 or more employees after the effective date of 310 CMR 7.16 shall be the date six months after it reaches such a level, except as provided below, and its base date report shall be due on the next date not more than six months later than is specified for any report or updated report by an existing facility. Where an employer or educational institution can establish to the satisfaction of the Secretary that a facility had commenced measures to reduce the number of single-occupant commuter vehicles customarily arriving daily at an earlier date, the Secretary may approve the use of such vehicles on such earlier date, an employer or educational institution may assume for the purpose of 310 CMR 7.16(4) that prior to such earlier date 20% of all commuters to such facility who arrived by motor vehicle other than mass transit customarily arrived by means other than single-occupant commuter vehicles.

Each base date report shall be current and include:

(a) The number of commuters who take any means of transportation to such facility as of its base date.

(b) The number of single-occupant commuter vehicles customarily used daily by commuters to the facility, the number of commuters who customarily carpool in a private vehicle carrying two or more occupants, the number of commuters who customarily vanpool in a vehicle carrying eight or more occupants, the number of commuters who customarily commute by any means of public transportation, the number of employees who customarily commute by any other means of travel (taxi, bicycle, *etc.*).

(c) The total number of vehicles customarily used daily by commuters to the facility as of the base date.

(d) The percentage which the current number of daily commuters in single-occupant vehicles is of all daily commuters to the facility.

(e) The percentage derived by taking $\frac{3}{4}$ of the percentage calculated in 310 CMR 7.16(4)(d). This percentage will serve as the program goal for individual employers defined as the ratio of single-occupant commuter vehicles to total daily commuters to the facility.

(f) The number of van type vehicles with eight or more commuters customarily arriving at the facility.

(g) The type of carpool matching program with a description of materials currently being used.

(h) The level of participation achieved in the most recent program, including the number of data cards distributed, and returned, the number of matching lists distributed and the number of commuters in newly formed carpools.

(i) The type of incentives offered, including parking, flexi-hours and others.

(j) The promotional strategies used to encourage ridesharing with copies of relevant materials excluding those supplied by MASSPOOL.

(k) The number of vans sponsored.

(1) The number of participants currently enrolled in a prepaid transit pass program, if applicable.

(5) \underline{U} . Each affected employer shall annually update its base date report by means of a report containing:

(a) Updated information called for in 310 CMR 7.16(2) through 7.16(4).

(b) The net change in percentage points between the percentage reported under 310 CMR 7.16(4)(e) as of the base date and that under 310 CMR 7.16(4)(d) as of the date of the current report.

(c) The net change in percentage points between the percentage reported under 310 CMR 7.16(4)(d) as of the last reporting period and the date of the current report.

(d) A detailed description of all measures which have been taken to reduce the number of single-occupant commuter vehicles to the facility and the commuter response to such measures.

The first such annual updated report for affected employers in the Metropolitan Boston Air Pollution Control District and the Pioneer Valley Air Pollution Control District shall be due on November 15, 1979, and successively each 12 months. The first such annual updated report for affected employers in the Berkshire Air Pollution Control District, Central Massachusetts Air Pollution Control District, Merrimack Valley Air Pollution Control District, and Southeastern Massachusetts Air Pollution Control District shall be due on November 15, 1980, and successively each 12 months.

(6) <u>U</u>. Each employer submitting reports required by 310 CMR 7.16(5) shall cause such reports to be signed as follows:

(a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or his duly authorized representative, if such representative is responsible for the overall operation of the facility covered by the reports.

- (b) In the case of a partnership, by a general partner.
- (c) In the case of a sole proprietorship, by the proprietor.
- (d) In the case of an unincorporated association, by the president or the chairman thereof.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

7.16: continued

(e) In the case of municipal, state, or other public facility, by either a principal executive officer, ranking elected official, or other fully authorized employee.

Each employer submitting reports required by 310 CMR 7.16(5) shall retain for at least three years all supporting documents and data upon which each such report was based. Each report submitted pursuant to 310 CMR 7.16(5) shall be accompanied by an adequate explanation of the methodology used to gather, complete and analyze the data, the assumptions used in that analysis, and samples of the forms used to elicit the underlying information from commuters at the facility.

(7) <u>U</u>. Where the total number of commuters to a particular facility is changed due to fluctuation in employment between the base date and the date of any report under 310 CMR 7.16(5) such fact shall be reported at the time of the submission of such report. The goal of the employer having such a change is to attain and maintain the ratio of commuters customarily arriving at facility daily in single-occupant commuter vehicles to total commuters indicated by 310 CMR 7.16(4)(e).

(8) <u>U</u>. If an employer does not meet and thereafter at all times maintain the reduction specified under 310 CMR 7.16(2) through 7.16(4) in connection with each report under 310 CMR 7.16(5) it shall, upon written notification of the Secretary, submit a description of any remedial actions which it intends to take to meet the requirements of 310 CMR 7.16(2) through 7.16(4).

(9) <u>U</u>. If an employer in good faith diligently and expeditiously implements and thereafter continuously maintains those measures set forth in 310 CMR 7.16(2) through 7.16(4) as are applicable to it, it shall not be subject to any enforcement action even though it may fail to achieve the 25% goal referred to in 310 CMR 7.16(1).

(10) <u>U</u>. Within 60 days after the receipt of the periodic reports required under 310 CMR 7.16(5), the Secretary shall submit to the Department a summary of the information contained in such reports, including:

(a) A list of all employers in the order of the percentage reduction achieved between the base dates and the date of the required report.

(b) The total reduction between the respective base dates and the date of the required reports of the number of single-occupant vehicles customarily used to arrive at all facilities for which reports were filed.

(c) A list of employers that have not complied with the provisions of 310 CMR 7.16.

7.18: U Volatile and Halogenated Organic Compounds

(1) <u>U Applicability and Handling Requirements</u>.

(a) 310 CMR 7.18 shall apply in its entirety to persons who own, lease, operate or control any facility which emits volatile organic compounds (VOC).

(b) For purposes of 310 CMR 7.18, except for 310 CMR 7.18(30), VOC shall include both VOC as defined in 310 CMR 7.00 and Halogenated Organic Compounds (HOC) as defined in 310 CMR 7.00.

(c) On or after July 1, 1980 any person owning, leasing, operating, or controlling a facility regulated under 310 CMR 7.18, shall store and dispose of volatile organic compounds in a manner which will minimize evaporation to the atmosphere. Proper storage shall be in a container with a tight fitting cover. Proper disposal shall include incineration in an incinerator approved by the Department, transfer to another person licensed by the Department to handle VOC, or any other equivalent method approved by the Department.
(d) Any person who owns, leases, operates, or controls a facility which is or becomes subject to 310 CMR 7.18, except for those persons solely subject to 310 CMR 7.18(30) unless the facility is a CTG-affected facility as defined in 310 CMR 7.18(30)(b), shall continue to comply with all requirements of 310 CMR 7.18, even if emissions from the subject facility no longer exceed applicability requirements of 310 CMR 7.18.

(e) Any person not regulated by 310 CMR 7.18, prior to August 15, 1989 shall achieve compliance with the applicable section(s) of 310 CMR 7.18 by August 15, 1990.

(f) Any person who, since January 1, 1990, obtains a plan approval for an emission unit under 310 CMR 7.02 where said approval establishes BACT or LAER to be no less stringent than RACT for a facility size and type as defined in 310 CMR 7.18 shall comply with the BACT or LAER established in the plan approval, and is not subject to RACT standards of 310 CMR 7.18 as may otherwise be applicable, until the applicable RACT standards of 310 CMR 7.18 become more stringent than the BACT or LAER established in the plan approval, at which point the person shall become subject to the updated RACT standards. (g) Any person who complies with 310 CMR 7.03 in *lieu* of obtaining a plan approval for an emission unit under 310 CMR 7.02 shall comply with applicable RACT requirements of 310 CMR 7.18 when such requirements become more stringent than those in 310 CMR 7.03. (h) Any person who complies with 310 CMR 7.26 shall comply with applicable RACT requirements that those in 310 CMR 7.26.

(2) <u>U Compliance with Emission Limitations</u>.

(a) Any person subject to 310 CMR 7.18 shall maintain continuous compliance with all requirements of 310 CMR 7.18. Except as provided for in 310 CMR 7.18(2)(b) and (g), compliance is based on the control method selected to meet the applicable emission limitations specified in 310 CMR 7.18, and EPA test methods as codified in 40 CFR Part 60, or other methods approved by the Department and EPA, and are as follows:

Compliance or Control Method	EPA Reference Test Method (or other as indicated)	Test Method Sampling Duration
Volatile organic compound leak detection	21	as specified in Test Method
Coatings, Inks and Related Materials Formulation	24, 24A	instantaneous grab sample
	18	as specified in Test Method
Exhaust measurement except carbon adsorption	25, 25A, 25B, California Air Resources Board (CARB) Method 100	three hours (as three, one hour runs)
	18	as specified in Test Method
Carbon adsorption	25 or other as appropriate	the length on the adsorption cycle or 24 hours, whichever is less.

(b) Any person proposing to comply with the requirements of 310 CMR 7.18 by emissions averaging is subject to the requirements of 310 CMR 7.00: *Appendix B*(4).

(c) Any person regulated under 310 CMR 7.18(14), (15), or (16), who cannot comply with the emission limitations contained therein through the use of add-on controls and/or low/no solvent coatings, shall apply to the Department by January 1, 1987 for an alternative emission limitation which reflects the application of source specific Reasonably Available Control Technology. Any alternative emission limitation provided for by 310 CMR 7.18 must also be approved by EPA. An applicant for an alternative RACT shall:

1. demonstrate to the Department that it is not technologically and economically

feasible for that person to comply with the applicable emission limitation; and

2. determine an emission limitation which reflects the application of Reasonably Available Control Technology;

Any person granted such an emission limitation shall:

3. re-evaluate, on a biennial basis (every two years), the emission limitation to reflect current application of Reasonably Available Control Technology and to confirm that the RACT emission limitation contained in 310 CMR 7.18(14) through (16) is still technologically and economically infeasible.

(d) The Department encourages any person owning, leasing, operating, or controlling a facility regulated under 310 CMR 7.18 to reduce the emissions of volatile organic compounds through the use of compounds which present less of a burden to the air, water and land, and which do not increase public health impacts.

(e) Any person owning, leasing, operating, or controlling a facility using air pollution capture and control equipment to comply with 310 CMR 7.18 shall continuously monitor and maintain records on the following parameters:

1. for a thermal incinerator; the combustion temperature measured in °F;

2. for a catalytic incinerator: the exhaust gas temperature (°F), the temperature rise across the catalyst bed (°F), and the date the catalyst was most recently replaced or changed;

3. for a condenser or refrigeration system; the inlet temperature of the cooling medium (°F), and the exhaust gas temperature (°F);

4. for a carbon adsorbers; the pressure drop across the adsorber, and the exhaust gas VOC concentration;

5. for emissions capture and control equipment not otherwise listed; any requirements specified by the Department in any approval(s) or order(s).

(f) <u>Exemption for Coatings Used in Small Amounts</u>. For any person who owns, leases, operates or controls a facility with coating line(s) subject to 310 CMR 7.18, except for 310 CMR 7.18(30), the emissions of VOC from any coatings used in small amounts at that facility are exempt from the emission limitations of the particular section, provided the person satisfies the following conditions:

1. the total amount of all coatings exempted does not exceed 55 gallons on a rolling 12month period at the facility; and,

2. the person notifies the Department that this exemption is being used 30 days prior to its first use; and

3. the person identifies in such notice the coatings which will be covered by this exemption; and,

4. the person complies with the recordkeeping and testing requirements of the particular section.

(g) <u>Daily Weighted Averaging</u>. Any person who owns, leases, operates or controls a coating line subject to 310 CMR 7.18, with the exception of coating lines subject to 310 CMR 7.18(24) or (28), may comply with the VOC emission limitations of the applicable section of 310 CMR 7.18 through the use of a daily-weighted average on an individual coating line, provided the person meets the following conditions:

1. the daily-weighted average for each coating line, each day, complies with the applicable emission limitation in 310 CMR 7.18 with no cross-line averaging allowed; and,

2. the coating line using a daily-weighted average to determine compliance does not use any emissions capture and control equipment for the compliance determination; and,

3. prior to being used, the exact method of measuring and determining compliance on a daily-weighted average basis is approved by the Department in an emissions control plan submitted under 310 CMR 7.18(20); and,

4. records kept to determine compliance on a daily-weighted average basis are kept at the facility for a period of five years, and made available to the Department or EPA on request; and,

5. the daily-weighted average for each coating line, with the exception of coating lines subject to 310 CMR 7.18(26) is calculated according to the following equation:

$$VOC_{W} = \frac{\sum_{i=1}^{n} V_{i}C_{i}}{V_{T}}$$

where:

- VOC_w = the daily-weighted average VOC content of the coatings used each day on each coating line in units of pounds of VOC per gallon of solids as applied;
- n = the number of different coatings applied, each day on a coating line;
- V_i = the volume of solids as applied for each coating, each day, on each coating line, in units of gallons of solids as applied;
- C_i = the VOC content for each coating, each day, on each coating line in units of pounds of VOC per gallons of solids as applied; and

V_T = the total volume of solids as applied, each day on each coating line.
 6. For coating lines subject to 310 CMR 7.18(26): *Textile Finishing*, the daily weighted average for each coating line is calculated according to the following equation:

$$VOC_{WM} = \frac{\sum_{i=1}^{n} M_i C_i}{M_T}$$

where:

- VOC_{WM} = the daily-weighted average VOC content of the coatings used each day on each coating line in units of pounds of VOC per pound of solids, as applied;
- n = the number of different coatings applied each day on a coating line;
- M_i = the mass of solids as applied for each coating, each day, on each coating line, in units of pounds of solids as applied;
- C_i = the VOC content of the coatings used, each day, on each coating line in units of pounds of VOC per pounds of solids, as applied;
- M_{T} = the total mass of solids as applied, each day on each coating line.

Coating usage may be averaged, providing the units in the equation are the same as the units that are used in the section of 310 CMR 7.18 that applies to the coatings included in the daily average. Only coatings subject to the same emissions standard may be averaged together.

(h) <u>Emission Reduction Credits (ERCs)</u>. Any facility may comply, either in part or entirely, with the applicable emission standard contained in 310 CMR 7.18 through the use of emission reduction credits (ERCs) certified by the Department pursuant to 310 CMR 7.00: *Appendix B*(3), provided that the requirements of 310 CMR 7.00: *Appendix B*(3)(e) are met prior to use of said ERCs.

(3) <u>U Metal Furniture Surface Coating</u>.

(a) <u>Applicability</u>.

1. On or after January 1, 1980, and prior to March 9, 2020, no person who owns, leases, operates, or controls a metal furniture surface coating line, which emits, before any application of air pollution control equipment, in excess of 15 pounds per day of volatile organic compounds (VOC), shall cause, suffer, allow or permit emissions in excess of the requirements of 310 CMR 7.18(3)(d)1. Such person shall also comply with 310 CMR 7.18(3)(g) through (i).

2. On or after March 9, 2020, any person who owns, leases, operates, or controls metal furniture surface coating operations and related cleaning operations which emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12-month period shall comply with 310 CMR 7.18(3)(c), (d)2., (e), and (g) through (i).

3. On or after March 9, 2018, any person who owns, leases, operates, or controls metal furniture surface coating operations and related cleaning operations which emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day, in the alternative, equal to or greater than three tons of VOC per rolling 12-month period shall comply with the work practices of 310 CMR 7.18(3)(f) for coating and cleaning operations.

- (b) Exemptions.
 - 1. The requirements of 310 CMR 7.18(3)(d)2. and 3. do not apply to:
 - a. stencil coatings;
 - b. safety-indicating coatings;
 - c. solid-film lubricants;
 - d. electric-insulating and thermal-conducting coatings;
 - e. touch-up coatings;
 - f. repair coatings; or
 - g. coating application utilizing hand-held aerosol cans.
 - 2. The requirements of 310 CMR 7.18(3)(e) do not apply to:
 - a. touch-up coatings;
 - b. repair coatings; or
 - c. coating application utilizing hand-held aerosol cans.

(c) <u>Extensions</u>. Any person subject to 310 CMR 7.18(3)(a)2. may apply in writing to the Department for a nonrenewable extension of the implementation deadline in 310 CMR 7.18(3)(a)2. by complying with 310 CMR 7.18(3)(g). The Department will consider a nonrenewable extension of the deadline in 310 CMR 7.18(3)(a)2. for persons applying under 310 CMR 7.18(3)(c) until no later than March 9, 2021, provided the emission control plan submitted for approval under 310 CMR 7.18(20) meets the following criteria in addition to those of 310 CMR 7.18(20):

1. a Toxics Use Reduction Plan or a Resource Conservation Plan completed for the facility in accordance with 310 CMR 50.40 through 50.48 is submitted as part of the emission control plan;

2. the Toxics Use Reduction Plan or Resource Conservation Plan was certified by a Toxics Use Reduction Planner certified under M.G.L. c. 21I, and 310 CMR 50.50 through 50.63;

3. the emission control plan proposes to reduce emissions or natural asset use, from the process or elsewhere in the facility, more than otherwise required pursuant to an applicable regulation or approval of the Department, through toxics use reduction techniques or resource conservation actions as defined in M.G.L. c. 21I; and

4. implementation of the emission control plan meets the emission limitations of 310 CMR 7.18(3)(d).

(d) <u>Reasonably Available Control Technology Requirements</u>.

1. Any person subject to 310 CMR 7.18(3)(a)1. shall not exceed a limitation of 5.1 pounds of VOC per gallon of solids applied.

2. Any person subject to 310 CMR 7.18(3)(a)2. shall limit VOC emissions by using only coatings having a VOC content no greater than the emission limitations listed in Tables 310 CMR 7.18(3)(d)2.a. (low-VOC coatings to meet the mass of VOC per volume of coating less water and exempt compounds, as-applied, limits) or b. (low-VOC coatings or a combination of coatings and add-on control equipment on a coating unit to meet the mass of VOC per volume of coating solids limits) or by complying with the requirement in 310 CMR 7.18(3)(d)3. If a coating can be classified in more than one coating category in 310 CMR 7.18(3)(d)2., then the least stringent coating category limitation shall apply.

Table 310 CMR 7.18(3)(d)2.a.						
RACT Emission Limitations for Metal Furniture Surface Coating						
	Mass of VOC p	er volume of coa	ating less wate	er and exempt		
		compounds, a	s applied			
	Bake	ed	Air	-dried		
Coating Category	kg/l coating	lb/gal coating	kg/l coating	lb/gal coating		
General, One Component	0.275	2.3	0.275	2.3		
General, Multi-component	0.275	2.3	0.340	2.8		
Extreme High Gloss	0.360	0.340	2.8			
Extreme Performance	0.360	3.0	0.420	3.5		
Heat Resistant	0.360	3.5				
Metallic	0.420 3.5 0.420 3.5					
Pretreatment Coatings	0.420	3.5	0.420	3.5		
Solar Absorbent	0.360	3.0	0.420	3.5		

Table 310 CMR 7.18(3)(d)2.b.					
RACT Emission Limitations for Metal Furniture Surface Coating					
	Mass of VOC	c per volume of c	coating solids, a	as applied	
	Bak	ed	Air-c	lried	
Coating Category	kg/l solids	lb/gal solids	kg/l solids	lb/gal	
				solids	
General, One Component	0.40	3.3	0.40	3.3	
General, Multi-component	0.40	3.3	0.55	4.5	
Extreme High Gloss	0.61	5.1	0.55	4.5	
Extreme Performance	0.61	5.1	0.80	6.7	
Heat Resistant	0.61	5.1	0.80	6.7	
Metallic	0.80	6.7	0.80	6.7	
Pretreatment Coatings	0.80	6.7	0.80	6.7	
Solar Absorbent	0.61	5.1	0.80	6.7	

3. Any person may achieve an overall VOC control efficiency of at least 90% by weight using add-on air pollution capture and control equipment instead of complying with the requirements of 310 CMR 7.18(3)(d)2.

(e) <u>Application Methods</u>. Unless complying with 310 CMR 7.18(3)(a)2. by means of 310 CMR 7.18(3)(d)3., all coatings shall be applied using one or more of the following:

- 1. electrostatic spray application;
- 2. HVLP spray;
- 3. flow coat;
- 4. roller coat;
- 5. dip coat, including electrodeposition;
- 6. airless spray;
- 7. air-assisted airless spray; or

8. a coating application method capable of achieving a transfer efficiency equivalent to or greater than that achieved by HVLP, as approved by EPA.

(f) <u>Work Practices for Coating and Cleaning Operations</u>. Any person subject to 310 CMR 7.18(3) shall comply with the work practices of 310 CMR 7.18(31)(e).

(g) Plan and Extension Submittal Requirements.

1. Any person subject to 310 CMR 7.18(3)(a)1. or 2. who chooses to install add-on air pollution capture and control equipment to comply with 310 CMR 7.18(3)(d) shall submit an emission control plan in accordance with 310 CMR 7.18(20).

2. Any person subject to 310 CMR 7.18(3)(a)2. who chooses to apply for an extension under 310 CMR 7.18(3)(c) shall comply with 310 CMR 7.18(20).

(h) <u>Recordkeeping Requirements</u>. Any person subject to 310 CMR 7.18(3)(a) shall prepare and maintain records sufficient to demonstrate compliance consistent with 310 CMR 7.18(2). Records kept to demonstrate compliance shall be kept on site for five years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved compliance plan or upon request. Such records shall include, but are not limited to:

1. identity, quantity, formulation and density of coating(s) used;

2. identity, quantity, formulation and density of any diluent(s) and clean-up solvent(s) used;

3. solids content of any coating(s) used;

4. actual operational and emissions characteristics of the coating line and any appurtenant emissions capture and control equipment;

5. quantity of product processed, if necessary to determine emissions; and

6. any other requirements specified by the Department in any approval(s) or order(s) issued to the person.

(i) <u>Testing Requirements</u>. Any person subject to 310 CMR 7.18(3)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(3). Testing shall be conducted in accordance with EPA Method 24 or Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA. EPA Method 25A shall be used when:

1. an exhaust concentration of less than or equal to 50 parts per million volume (ppmv) as carbon is required to comply with the applicable limitation;

2. the inlet concentration and the required level of control results in an exhaust concentration of less than or equal to 50 ppmv as carbon; or

3. the high efficiency of the control device alone results in an exhaust concentration of less than or equal to 50 ppmv as carbon.

(4) <u>U Metal Can Surface Coating</u>.

(a) On or after January 1, 1980, no person who owns, leases, operates, or controls a metal can coating line, which emits, before any application of air pollution control equipment, in excess of 15 pounds per day of volatile organic compounds (VOC), shall cause, suffer, allow or permit emissions therefrom in excess of the emission limitations set forth in 310 CMR 7.18(4)(b).

(b) Emission Limitations Metal Can Surface Coating.

Emission Source	Emission Limitation in pounds of volatile organic compounds per gallon of solids applied
Sheet base coat (exterior and interior and exterior overvarnish)	4.5
Two-piece can exterior (basecoat and overvarnish)	4.5
Two and Three-piece can (interior body spray)	9.8
Two-piece can exterior end (spray or roll coat)	9.8
Three-piece can side seam spray	21.8
End sealing compound	7.4

(c) Any person subject to 310 CMR 7.18(4)(a) shall maintain continuous compliance at all times. Compliance averaging times will be met in accordance with the requirements of 310 CMR 7.18(2)(a). Demonstrations of compliance shall not include any considerations of transfer efficiency.

(d) Any person subject to 310 CMR 7.18(4)(a) shall prepare and maintain daily records sufficient to demonstrate compliance consistent with the applicable averaging time as stated in 310 CMR 7.18(2)(a). Records kept to demonstrate compliance shall be kept on site for three years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved compliance plan or upon request. Such records shall include, but are not limited to:

1. identity, quantity, formulation and density of coating(s) used;

2. identity, quantity, formulation and density of any diluent(s) and clean-up solvent(s) used;

3. solids content of any coating(s) used;

4. actual operational and emissions characteristics of the coating line and any appurtenant emissions capture and control equipment;

5. quantity of product processed;

6. any other requirements specified by the Department in any approval(s) and/or order(s) issued to the person.

(e) Persons subject to 310 CMR 7.18(4)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance. Testing shall be conducted in accordance with EPA Method 24 and/or Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA.

(5) <u>U Large Appliance Surface Coating</u>.

(a) <u>Applicability</u>.

1. On or after January 1, 1980, and prior to March 9, 2020, no person who owns, leases, operates, or controls a large appliance surface coating line, which emits, before any application of air pollution control equipment, in excess of 15 pounds per day of volatile organic compounds (VOC), shall cause, suffer, allow or permit emissions in excess of the requirements of 310 CMR 7.18(5)(d)1. Such person shall also comply with 310 CMR 7.18(5)(g) through (i).

2. On or after March 9, 2020, any person who owns, leases, operates, or controls large appliance surface coating operations and related cleaning operations which emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12 month period shall comply with 310 CMR 7.18(5)(c), (d)2., (e), and (g) through (I).

3. On or after March 9, 2018, any person who owns, leases, operates, or controls large appliance surface coating operations and related cleaning operations which emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12-month period shall comply with the work practices of 310 CMR 7.18(5)(f) for coating and cleaning operations.

(b) Exemptions.

- 1. The requirements of 310 CMR 7.18(5)(d)2. and 3. do not apply to:
 - a. stencil coatings;
 - b. safety-indicating coatings;
 - c. solid-film lubricants;
 - d. electric-insulating and thermal-conducting coatings;
 - e. touch-up coatings;
 - f. repair coatings; or
 - g. coating application utilizing hand-held aerosol cans.
- 2. The requirements of 310 CMR 7.18(5)(e) do not apply to:
 - a. touch-up coatings;
 - b. repair coatings; or
 - c. coating application utilizing hand-held aerosol cans.

(c) <u>Extensions</u>. Any person subject to 310 CMR 7.18(5)(a)2. may apply in writing to the Department for a nonrenewable extension of the implementation deadline in 310 CMR 7.18(5)(a)2. by complying with 310 CMR 7.18(5)(g). The Department will consider a nonrenewable extension of the deadline in 310 CMR 7.18(5)(a)2. for persons applying under 310 CMR 7.18(5)(c) until no later than March 9, 2021, provided the emission control plan submitted for approval under 310 CMR 7.18(20) meets the following criteria in addition to those of 310 CMR 7.18(20):

1. a Toxics Use Reduction Plan or a Resource Conservation Plan completed for the facility in accordance with 310 CMR 50.40 through 50.48 is submitted as part of the emission control plan;

2. the Toxics Use Reduction Plan or Resource Conservation Plan was certified by a Toxics Use Reduction Planner certified under M.G.L. c. 21I, and 310 CMR 50.50 through 50.63;

3. the emission control plan proposes to reduce emissions or natural asset use, from the process or elsewhere in the facility, more than otherwise required pursuant to an applicable regulation or approval of the Department, through toxics use reduction techniques or resource conservation actions as defined in M.G.L. c. 21I; and

4. implementation of the emission control plan meets the emission limitations of 310 CMR 7.18(5)(d).

(d) <u>Reasonably Available Control Technology Requirements</u>.

1. Any person subject to 310 CMR 7.18(5)(a)1. shall not exceed a limitation of 4.5 pounds of VOC per gallon of solids applied.

2. Any person subject to 310 CMR 7.18(5)(a)2. shall limit VOC emissions by using only coatings having a VOC content no greater than the emission limitations listed in Tables 310 CMR 7.18(5)(d)2.a. (low-VOC coatings to meet the mass of VOC per volume of coating less water and exempt compounds, as-applied, limits) or b. (low-VOC coatings or a combination of coatings and add-on control equipment on a coating unit to meet the mass of VOC per volume of coating solids limits) or by complying with the requirement in 310 CMR 7.18(5)(d)3. If a coating can be classified in more than one coating category in 310 CMR 7.18(5)(d)2., then the least stringent coating category limitation shall apply.

Table 310 CMR 7.18(5)(d)2.a.						
RACT Emission I	RACT Emission Limitations for Large Appliance Surface Coating					
	Mass of VOC p	er volume of coa	ating less wate	er and exempt		
	_	compounds, a	s applied	_		
	Bake	ed	Air -	Dried		
Coating Category	kg/l coating	lb/gal coating	kg/l coating	lb/gal coating		
General, One Component	0.275	.275 2.3		2.3		
General, Multi-Component	0.275	2.3	0.340	2.8		
Extreme High Gloss	0.360	3.0	0.340	2.8		
Extreme Performance	0.360	0.420	3.5			
Heat Resistant	0.360	3.5				
Metallic	0.420 3.5 0.420 3.5					
Pretreatment Coatings	0.420	3.5	0.420	3.5		
Solar Absorbent	0.360	3.0	0.420	3.5		

Table 310 CMR 7.18(5)(d)2.b.						
RACT Emission Limitations for Large Appliance Surface Coating						
	Mass of VOC	per volume of co	oating solids, a	is applied		
	Bake	ed	Air -	Dried		
Coating Category	kg/l solids	lb/gal solids	kg/l solids	lb/gal solids		
General, One Component	0.40	3.3	0.40	3.3		
General, Multi-Component	0.40	3.3	0.55	4.5		
Extreme High Gloss	0.61	5.1	0.55	4.5		
Extreme Performance	0.61	5.1	0.80	6.7		
Heat Resistant	0.61	5.1	0.80	6.7		
Metallic	0.80	6.7				
Pretreatment Coatings	0.80 6.7 0.80 6					
Solar Absorbent	0.61	5.1	0.80	6.7		

3. Any person may achieve an overall VOC control efficiency of at least 90% by weight using add-on air pollution capture and control equipment instead of complying with the requirements of 310 CMR 7.18(5)(d)2.

(e) Application Methods. Unless complying with 310 CMR 7.18(5)(a)2. by means of

310 CMR 7.18(5)(d)3., all coatings shall be applied using one or more of the following:

1. electrostatic spray application;

- 2. HVLP spray;
- 3. flow coat;
- 4. roller coat;
- 5. dip coat, including electrodeposition;
- 6. airless spray;
- 7. air-assisted airless spray; or

8. a coating application method capable of achieving a transfer efficiency equivalent to or greater than that achieved by HVLP, as approved by EPA.

(f) <u>Work Practices for Coating and Cleaning Operations</u>. Any person subject to 310 CMR 7.18(5) shall comply with the work practices of 310 CMR 7.18(31)(e).

(g) Plan and Extension Submittal Requirements.

1. Any person subject to 310 CMR 7.18(5)(a)1. or 2. who chooses to install add-on air pollution capture and control equipment to comply with 310 CMR 7.18(5)(d) shall submit an emission control plan in accordance with 310 CMR 7.18(20).

2. Any person subject to 310 CMR 7.18(5)(a)2. who chooses to apply for an extension under 310 CMR 7.18(5)(c) shall comply with 310 CMR 7.18(20).

(h) <u>Recordkeeping Requirements</u>. Any person subject to 310 CMR 7.18(5)(a) shall prepare and maintain records sufficient to demonstrate compliance consistent with 310 CMR 7.18(2). Records kept to demonstrate compliance shall be kept on site for five years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved compliance plan or upon request. Such records shall include, but are not limited to:

1. identity, quantity, formulation and density of coating(s) used;

2. identity, quantity, formulation and density of any diluent(s) and clean-up solvent(s) used;

3. solids content of any coating(s) used;

4. actual operational and emissions characteristics of the coating line and any appurtenant emissions capture and control equipment;

5. quantity of product processed, if necessary to determine emissions; and

6. any other requirements specified by the Department in any approval(s) or order(s) issued to the person.

(i) <u>Testing Requirements</u>. Any person subject to 310 CMR 7.18(5)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(5). Testing shall be conducted in accordance with EPA Method 24 or Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA. EPA Method 25A shall be used when:

1. an exhaust concentration of less than or equal to 50 parts per million volume (ppmv) as carbon is required to comply with the applicable limitation;

2. the inlet concentration and the required level of control results in an exhaust concentration of less than or equal to 50 ppmv as carbon; or

3. the high efficiency of the control device alone results in an exhaust concentration of less than or equal to 50 ppmv as carbon.

(6) <u>U Magnet Wire Insulation Surface Coating</u>.

(a) On or after January 1, 1980, no person who owns, leases, operates, or controls a magnet wire insulation coating line, which emits, before any application of air pollution control equipment, in excess of 15 pounds per day of volatile organic compounds, shall cause, suffer, allow or permit emissions therefrom in excess of 2.2 pounds of volatile organic compounds per gallon of solids applied.

(b) Any person subject to 310 CMR 7.18(6)(a) shall maintain continuous compliance at all times. Compliance averaging times will be met in accordance with the requirements of 310 CMR 7.18(2)(a). Demonstrations of compliance shall not include any considerations of transfer efficiency.

(c) Any person subject to 310 CMR 7.18(6)(a) shall prepare and maintain daily records sufficient to demonstrate compliance consistent with the applicable averaging time as stated in 310 CMR 7.18(2)(a). Records kept to demonstrate compliance shall be kept on site for three years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved compliance plan or upon request. Such records shall include, but are not limited to:

1. identity, quantity, formulation and density of coating(s) used;

2. identity, quantity, formulation and density of any diluent(s) and clean-up solvent(s) used;

3. solids content of any coating(s) used;

4. actual operational and emissions characteristics of the coating line and any appurtenant emissions capture and control equipment;

5. quantity of product processed;

6. any other requirements specified by the Department in any approval(s) and/or order(s) issued to the person.

(d) Persons subject to 310 CMR 7.18(6)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance. Testing shall be conducted in accordance with EPA Method 24 and/or Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA.

(7) <u>U Automobile Surface Coating</u>. (Reserved)

(8) <u>U Solvent Metal Degreasing</u>.

(a) <u>Cold Cleaning Degreasing</u>. On or after September 6, 2009, no person owning, operating, leasing or controlling any solvent metal degreasing facility which utilizes a cold cleaning degreaser (that is able to contain more than one liter of solvent) shall cause, suffer, allow or permit emissions of volatile organic compounds therefrom unless they comply with the requirements in 310 CMR 7.18(8)(a)1. through 3.

1. The solvent used in a cold cleaning degreaser shall have a vapor pressure that does not exceed 1.0 mm Hg measured at 20°C. This requirement shall not apply to any of the following:

a. cold cleaning degreasers used in special and extreme solvent metal cleaning;

b. cold cleaning degreasers for which the owner or operator has received Department approval of a demonstration that compliance with the requirement to use a solvent with a vapor pressure of 1.0 mm Hg or less at 20°C will result in unsafe operating conditions;

c. cold cleaning degreasers that are located in a permanent total enclosure having control equipment that is designed and operated with an overall VOC control efficiency of 90% or greater; and

d. cold cleaning degreasers used in the cleaning of high precision products for which the owner or operator has received Department and EPA approval.

2. Any leaks shall be repaired immediately, or the degreaser shall be shut down.

3. The following requirements shall apply unless the cold cleaning degreaser is a sinklike work area with a remote solvent reservoir with an open drain area less than 100 square centimeters:

a. Each cold cleaning degreaser is equipped with a cover that is designed to be easily operated with one hand;

b. Each cold cleaning degreaser is equipped to drain clean parts so that, while draining, the cleaned parts are enclosed for 15 seconds or until dripping ceases, whichever is longer;

c. Each cold cleaning degreaser is designed with:

i. a freeboard ratio of 0.75 or greater; or

ii. a water blanket (only if the solvent used is insoluble in and heavier than water); or

iii. an equivalent system of air pollution control which has been approved by the Department and EPA;

d. The covers of each cold cleaning degreaser are closed whenever parts are not being handled in the degreaser, or when the degreaser is not in use; and

e. The drafts across the top of each cold cleaning degreaser are minimized such that when the cover is open the degreaser is not exposed to drafts greater than 40 meters per minute (1.5 miles per hour), as measured between one and two meters upwind at the same elevation as the tank lip.

(b) <u>Vapor Degreasing</u>. On or after December 31, 1980 no person owning, leasing operating or controlling a solvent metal degreasing facility which utilizes a vapor degreaser shall cause, suffer, allow or permit emissions therefrom unless:

1. each vapor degreaser is equipped with a cover designed to be easily operated in manner which will not disturb the vapor zone; and

2. each vapor degreaser is covered except when work loads are being loaded, unloaded or degreased in the degreaser; and

3. each vapor degreaser is equipped with the following safety switches which are maintained and operated in accordance with the recommendations of the manufacturer:

a. a switch designed to shut off the heating source for the sump if the condenser coolant is either not circulating, or the solvent vapor level has risen above the primary coil; and

b. a switch designed to shut off the spray pump if the solvent vapor level drops more than ten centimeters (four inches) below the lowest condensing coil; and

4. at least one of the following devices has been installed on each vapor degreaser, and that device is maintained and operated in accordance with the recommendations of the manufacturer:

a. a freeboard ratio equal to or greater than 0.75 and, a power cover, if the degreaser opening is greater than one square meter (ten square feet); or,

b. a refrigerated chiller; or,

c. an enclosed design whereby the cover is open only when the dry part is entering or exiting the vapor degreaser; or

d. an adsorption system with ventilation greater than or equal to 15 cubic meters per minute per square meter (50 cubic feet per minute per square foot) of air/vapor area (determined when the degreaser's cover is open) which exhausts less than 25 parts per million of solvent by volume averaged over one complete adsorption cycle or 24 hours whichever is less; or,

e. any other device, demonstrated to have a control efficiency equal to or greater than any of the above, approved by the Department and EPA; and,

5. solvent carry out from each vapor degreaser is minimized by:

a. racking parts to allow for complete drainage; and,

b. moving parts in and out of the degreaser at less than 3.3 meters per minute (11 feet per minute); and,

c. holding the parts in the vapor zone for 30 seconds or until condensation ceases, whichever is longer; and,

d. tipping out any pools of solvent on the cleaned parts before removal from the vapor zone; and,

e. allowing parts to dry within the degreaser for 15 seconds or until visually dry, whichever is longer; and,

6. no porous or absorbent material, such as, but not limited to cloth, leather, wood or rope is placed in the vapor degreaser; and,

7. less than half of the degreaser's open top area is occupied with a workload; and,

8. each degreaser is operated so that the vapor level does not drop more than ten centimeters (four inches) when the workload is removed from the vapor zone; and,

9. operators always spray within the vapor zone; and,

10. liquid leaks in each vapor degreaser are repaired immediately, or the degreaser is shut down; and,

11. each degreaser is operated so as to prevent water from being visually detected in the solvent exiting the water separator; and,

12. each degreaser is located and operated in such a manner that it is not exposed to drafts greater than 40 meters per minute (131 feet per minute) as measured between one and two meters upwind at the same elevation as the tank lip, nor is it provided with an exhaust ventilation system which exceeds 20 cubic meters per minute per square meter (65 cubic feet per minute per square foot) of vapor degreaser open area, unless such an exhaust ventilation system is necessary to meet OSHA requirements; and,

13. the cover is located below the lip exhaust, if the vapor degreaser is equipped with a lip exhaust.

(c) <u>Conveyorized Degreasing</u>. On or after December 31, 1980 no person who owns, leases, operates or controls a solvent metal degreasing facility which utilizes a conveyorized degreaser shall cause, suffer, allow or permit emissions therefrom, unless:

1. at least one of the following devices has been installed on each conveyorized degreaser with an air/vapor interface greater than 21.5 square feet, and that device is maintained and operated in accordance with the recommendations of the manufacturer:

a. a refrigerated chiller; or,

b. an adsorption system with ventilation greater than or equal to 15 cubic meters per minute per square meter (50 cubic feet per minute per square foot) of air/vapor area (determined when the degreaser's downtime covers are open) which exhausts less than 25 parts per million of solvent by volume averaged over one complete adsorption cycle or 24 hours whichever is less; or,

c. any other device, demonstrated to have a control efficiency equal to or greater than any of the above, approved by the Department and EPA; and,

2. each conveyorized degreaser is designed and operated to prevent cleaned parts from carrying out the solvent liquid or vapor, for example equipping the degreaser with a drying tunnel or rotating (tumbling) basket; and

3. each conveyorized degreaser is equipped with the following safety switches which are maintained and operated in accordance with the recommendations of the manufacturer:

a. a switch designed to shut off the heating source for the sump if the condenser coolant is either not circulating, or if the solvent vapor level has risen above the primary coil; and

b. a switch designed to shut off the spray pump or the conveyor if the solvent vapor level drops more than ten centimeters (four inches) below the lowest condensing coil; and

4. the openings of each conveyorized degreaser are minimized during operation such that average clearance at the entrances and exits of the degreaser between the workloads and the edge of the degreaser opening is less than ten centimeters (four inches) or 10% of the width of the opening; and,

5. covers are placed over the entrances and exits of each conveyorized degreaser immediately after the conveyors and exhausts are shut down, and the covers are left in place until just prior to start-up; and,

6. solvent carry out from each conveyorized degreaser is minimized by:

a. racking parts to allow for complete drainage; and,

b. maintaining the vertical conveyor speed at less than 3.3 meters per minute (11 feet per minute); and,

7. leaks in each conveyorized degreaser are repaired immediately, or the degreaser is shutdown; and,

8. each conveyorized degreaser is operated so as to prevent water from being visually detected in solvent exiting the water separator; and,

9. no conveyorized degreaser is provided with an exhaust ventilation system which exceeds 20 cubic meters per minute per square meter (65 cubic feet per minute per square foot) of vapor degreaser open area, unless such an exhaust ventilation system is necessary to meet OSHA requirements; and,

(d) <u>Aqueous Cleaning</u>: any aqueous cleaner in which all the following conditions are satisfied is exempt from the requirements of 310 CMR 7.18(8)(a) through (c):

1. 1. All organic material in the cleaning fluid is water soluble; and

2. The cleaning fluid contains no more than 5% by weight organic material, excluding soaps.

(e) On or after December 31, 1980 any person subject to 310 CMR 7.18(8)(a), (b), or (c) shall operate any solvent metal degreaser using procedures which minimize evaporative emissions and prohibit spills from the use of said degreaser. Such procedures include but are not limited to:

1. notification to operators of the performance requirements that must be practiced in the operation of the degreaser, including the permanent and conspicuous posting of labels in the vicinity of the degreaser detailing performance requirements; and

2. storage of waste degreasing solvent in closed containers, and disposal or transfer of waste degreasing solvent to another party, in a manner such that less than 20% of the waste degreasing solvent by weight can evaporate into the atmosphere; and

3. where applicable, supplying a degreasing solvent spray which is a continuous fluid stream (not a fine, atomized or shower type spray) at a pressure which does not exceed ten pounds per square inch as measured at the pump outlet, and use any such spray within the confines of the degreaser, except for cleaning of high precision products, for which such person has received Department and EPA approval to use spray operations with non-continuous fluid stream or pressure greater than ten pounds per square inch, provided that such person shall:

a. Limit the amount of solvent consumed in such spray operations at the premises to less than 3,000 gallons in any 12-month period, excluding solvent captured and recycled on-site;

b. Use a solvent with a VOC content less than 7.7 pounds per gallon in such operations; and

c. Prepare and maintain records sufficient to demonstrate compliance with 310 CMR 7.18(8)(e)3.a. and b. Records to demonstrate compliance shall be kept on site for five years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved compliance plan or upon request.

(f) Any person subject to 310 CMR 7.18(8)(a), (b), or (c) shall maintain instantaneous and continuous compliance at all times.

(g) Any person subject to 310 CMR 7.18(8)(a), (b), (c) or (d) shall prepare and maintain daily records sufficient to demonstrate continuous compliance. Records kept to demonstrate compliance shall be kept on site for five years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved compliance plan or upon request. Such records shall include, but are not limited to:

1. identity, quantity, formulation and density of solvent(s) used;

2. quantity, formulation and density of all waste solvent(s) generated;

3. actual operational and performance characteristics of the degreaser and any appurtenant emissions capture and control equipment, if applicable; and

4. any other requirements specified by the Department in any approval(s) and/or order(s) issued to the person.

(h) Persons subject to 310 CMR 7.18(8) shall, upon request by the Department, perform or have performed tests to demonstrate compliance. Testing shall be conducted in accordance with a method approved by the Department and EPA.

(9) <u>U Cutback Asphalt</u>.

(a) On or after May 1, 1982, no person using asphalt shall cause, suffer, allow or permit the use or application of cutback asphalt for paving purposes.

(b) 310 CMR 7.18(9)(a) shall not apply to any of the following:

1. Cutback asphalt usage from October 1 through April 30.

2. Cutback asphalt used as a penetrating prime coat.

3. Storage or stockpiling of patching mixes used in pavement maintenance for a time period greater than one month.

4. Cutback asphalt of which less than 5% by weight of the total solvent evaporates at a temperature up to and including 500°F as determined by ASTM Method D402, Distillation of Cutback Asphalt Products.

(c) Any person subject to 310 CMR 7.18(9)(a) shall demonstrate continuous compliance consistent with an instantaneous averaging period.

(d) Persons using cutback asphalt shall keep records to satisfy the requirements of 310 CMR 7.18(9)(c) and said records shall be made available to representatives of the Department and EPA upon request. Such records shall include, but are not limited to:

1. quantity and formulation of any cutback asphalt used;

2. name and address of the supplier, date of purchase and date of use of any cutback asphalt; and

3. any other requirements specified by the Department in any order(s) issued to the person, if applicable.

(e) Persons subject to 310 CMR 7.18(9)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance. Testing shall be conducted in accordance with ASTM Method D-244, or by other methods approved by the Department and EPA.

(10) <u>U Metal Coil Coating</u>.

(a) On or after July 1, 1980, no person who owns, leases, operates, or controls a metal coil coating line, which emits, before any application of air pollution control equipment, in excess of 15 pounds per day of volatile organic compounds, shall cause, suffer, allow or permit emissions therefrom in excess of 4.0 pounds of volatile organic compounds per gallon of solids.

(b) Any person subject to 310 CMR 7.18(10)(a) shall maintain continuous compliance at all times. Compliance averaging times will be met in accordance with the requirements of 310 CMR 7.18(2)(a). Demonstrations of compliance shall not include any considerations of transfer efficiency.

(c) Any person subject to 310 CMR 7.18(10)(a) shall prepare and maintain daily records sufficient to demonstrate compliance consistent with the applicable averaging time as stated in 310 CMR 7.18(2)(a). Records kept to demonstrate compliance shall be kept on site for three years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved compliance plan or upon request. Such records shall include, but are not limited to:

1. identity, quantity, formulation and density of coating(s) used;

2. identity, quantity, formulation and density of any diluent(s) and clean-up solvent(s) used;

3. solids content of any coating(s) used;

4. actual operational and emissions characteristics of the coating line and any appurtenant emissions capture and control equipment;

5. quantity of product processed; and

6. any other requirements specified by the Department in any approval(s) and/or order(s) issued to the person.

(d) Persons subject to 310 CMR 7.18(10)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance. Testing shall be conducted in accordance with EPA Method 24 and/or Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA.

(11) <u>U Surface Coating of Miscellaneous Metal Parts and Products</u>.

(a) <u>Applicability</u>.

1. On or after December 31, 1982, no person who owns, leases, operates, or controls a miscellaneous metal parts and products surface coating lines, which has the potential to emit equal to or greater than ten tons per year of volatile organic compounds (VOC), shall cause, suffer or permit emissions of volatile organic compounds in excess of the emission limitations set forth in 310 CMR 7.18(11)(d)1. Such person shall also comply with 310 CMR 7.18(11)(g) through (i).

2. On or after March 9, 2020, any person who owns, leases, operates, or controls miscellaneous metal parts and products surface coating operations and related cleaning operations which emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12 month period shall comply with 310 CMR 7.18(11)(c), (d)2. and 3., (e), and (g) through (i).

3. On or after March 9, 2020, any person who owns, leases, operates, or controls plastic parts surface coating operations and miscellaneous metal parts and products surface coating operations and related cleaning operations within the same facility, which in total emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12 month period shall comply with 310 CMR 7.18(11)(c), (d)2. and 3., (e), and (g) through (i). The plastic parts surface coating operations are subject to 310 CMR 7.18(21).

4. On or after March 9, 2018, any person who owns, leases, operates, or controls plastic parts surface coating operations and miscellaneous metal parts and products surface coating operations and related cleaning operations which emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12 month period shall comply with the work practices of 310 CMR 7.18(11)(f) for coating and cleaning operations.

(b) <u>Exemptions</u>.

1. Any facility which has not, since January 1, 1991 emitted, before the application of any air pollution control equipment, one ton or more of volatile organic compounds in any one calendar month, or ten or more tons of volatile organic compounds in any consecutive 12 month time period is exempt from the emissions limitations of 310 CMR 7.18(11)(d)1.

2. The miscellaneous metal parts and products coatings requirements of 310 CMR 7.18(11)(d)2. and 3. and (e) do not apply to:

- a. stencil coatings;
- b. safety-indicating coatings;
- c. solid-film lubricants;
- d. electric-insulating and thermal-conducting coatings;
- e. magnetic data storage disk coatings;
- f. plastic extruded onto metal parts to form a coating;
- g. powder coating; or
- h. coating application utilizing hand-held aerosol cans.

- 3. The requirements of 310 CMR 7.18(11)(e) do not apply to:
 - a. touch-up coatings;
 - b. repair coatings; or
 - c. texture coatings.

4. The requirements of 310 CMR 7.18(11)(e) do not apply to pleasure craft surface coating operations when applying extreme high-gloss coatings.

5. The requirements of 310 CMR 7.18(11)(d)2. and 3., (e), and (f) do not apply to aerospace manufacturing and rework operations. Aerospace manufacturing and rework operations shall remain subject to the emission limitations set forth in 310 CMR 7.18(11)(d)1.

(c) <u>Extensions</u>. Any person subject to 310 CMR 7.18(11)(a)2. or 3. may apply in writing to the Department for a nonrenewable extension of the implementation deadline in 310 CMR 7.18(11)(a)2. or 3. by complying with 310 CMR 7.18(11)(g). The Department will consider a nonrenewable extension of the deadline in 310 CMR 7.18(11)(a)2. or 3. for persons applying under 310 CMR 7.18(11)(c) until no later than March 9, 2021, provided the emission control plan submitted for approval under 310 CMR 7.18(20) meets the following criteria in addition to those of 310 CMR 7.18(20):

1. a Toxics Use Reduction Plan or a Resource Conservation Plan completed for the facility in accordance with 310 CMR 50.40 through 50.48 is submitted as part of the emission control plan;

2. the Toxics Use Reduction Plan or Resource Conservation Plan was certified by a Toxics Use Reduction Planner certified under M.G.L. c. 21I, and 310 CMR 50.50 through 50.63;

3. the emission control plan proposes to reduce emissions or natural asset use, from the process or elsewhere in the facility, more than otherwise required pursuant to an applicable regulation or approval of the Department, through toxics use reduction techniques or resource conservation actions as defined in M.G.L. c. 21I; and

4. implementation of the emission control plan meets the emission limitations of 310 CMR 7.18(11)(d).

(d) <u>Reasonably Available Control Technology Requirements</u>.

1. If more than one emission limitation applies to any specific coating, then the coating shall comply with the least stringent.

Table 310 CMR 7.18(11)(d)1.Emission LimitationsSurface Coating of Miscellaneous Metal Parts and Products			
Emission Source	Emission Limitation*		
Pounds of VOC per gallon of solids applied			
Clear Coatings 10.3			
Coating line that is air-dried or forced warm- air dried at temperatures up to 90°C 6.7			
Extreme Performance Coating 6.7			
All other coatings and coating lines	5.1		

*If more than one emission limitation above applies to a specific coating, then the least stringent emission limitation shall be applied.

2. Any person subject to 310 CMR 7.18(11)(a)2. or 3. shall limit VOC emissions by using only coatings having a VOC content no greater than the emission limitations listed in Tables 310 CMR 7.18(11)(d)2.a., c. and d. (low-VOC coatings to meet the mass of VOC per volume of coating less water and exempt compounds, as-applied, limits) or b. and c. (low-VOC coatings or a combination of coatings and add-on control equipment on a coating unit to meet the mass of VOC per volume of coating solids limits), or by complying with the requirement in 310 CMR 7.18(11)(d)3. If a coating can be classified in more than one coating category in 310 CMR 7.18(11)(d), then the least stringent coating category limitation shall apply.

Table 310 CMR 7.18(11)(d)2.a.				
RACT Emission Limitations for Surface Coating of Miscellaneous Metal Parts and Products				
	Mass of VOC per volume of coating less water an			ess water and
	exempt compounds, as applied			ed
	Air-	Dried	B	aked
Coating Category	kg/l	lb/gal	kg/l	lb/gal
	coating	coating	coating	coating
General, One-component	0.34	2.8	0.28	2.3
General, Multi-component	0.34	2.8	0.28	2.3
Camouflage	0.42	3.5	0.42	3.5
Electric Insulating Varnish	0.42	3.5	0.42	3.5
Etching Filler	0.42	3.5	0.42	3.5
Extreme High-gloss	0.42	3.5	0.36	3.0
Extreme Performance	0.42	3.5	0.36	3.0
Heat-Resistant	0.42	3.5	0.36	3.0
High Performance Architectural	0.74	6.2	0.74	6.2
High Temperature	0.42	3.5	0.42	3.5
Metallic	0.42	3.5	0.42	3.5
Military Specification	0.34	2.8	0.28	2.3
Mold-seal	0.42	3.5	0.42	3.5
Pan Backing	0.42	3.5	0.42	3.5
Prefabricated Architectural One & Multi-component	0.42	3.5	0.28	2.3
Pretreatment Coatings	0.42	3.5	0.42	3.5
Repair and Touch-up	0.42	3.5	0.36	3.0
Silicone-Release	0.42	3.5	0.42	3.5
Solar-Absorbent	0.42	3.5	0.36	3.0
Vacuum-metallizing	0.42	3.5	0.42	3.5
Drum Coating - New - Exterior	0.34	2.8	0.34	2.8
Drum Coating - New - Interior	0.42	3.5	0.42	3.5
Drum Coating - Reconditioned - Exterior	0.42	3.5	0.42	3.5
Drum Coating - Reconditioned - Interior	0.50	4.2	0.50	4.2

Table 310 CMR 7.18(11)(d)2.b.				
RACT Emission Limitations for Surface Coating of Miscellaneous Metal Parts and Products				
	Mass of VOC per volume of coating solids, as			
	applied			
	Aiı	-Dried		aked
Coating Category	kg/l	11 / 1 1.1	1 (1 1.1	11 / 1 1.1
	solids	lb/gal solids	kg/l solids	lb/gal solids
General, One-component	0.54	4.52	0.40	3.35
General, Multi-component	0.54	4.52	0.40	3.35
Camouflage	0.80	6.67	0.80	6.67
Electric Insulating Varnish	0.80	6.67	0.80	6.67
Etching Filler	0.80	6.67	0.80	6.67
Extreme High-gloss	0.80	6.67	0.61	5.06
Extreme Performance	0.80	6.67	0.61	5.06
Heat-Resistant	0.80	6.67	0.61	5.06
High Performance Architectural	4.56	38.0	4.56	38.0
High Temperature	0.80	6.67	0.80	6.67
Metallic	0.80	6.67	0.80	6.67
Military Specification	0.54	4.52	0.40	3.35
Mold-Seal	0.80	6.67	0.80	6.67
Pan Backing	0.80	6.67	0.80	6.67
Prefabricated Architectural One & Multi-component	0.80	6.67	0.40	3.35
Pretreatment Coatings	0.80	6.67	0.80	6.67
Repair and Touch-up	0.80	6.67	0.80	6.67
Silicone-release	0.80	6.67	0.80	6.67
Solar-absorbent	0.80	6.67	0.61	5.06
Vacuum-metallizing	0.80	6.67	0.80	6.67
Drum Coating - New - Exterior	0.54	4.52	0.54	4.52
Drum Coating - New - Interior	0.80	6.67	0.80	6.67
Drum Coating - Reconditioned - Exterior	0.80	6.67	0.80	6.67
Drum Coating - Reconditioned - Interior	1.17	9.78	1.17	9.78

Table 310 CMR 7.18(11)(d)2.c.						
RACT Emission Limitations for Pleasure Craft Surface Coatings						
	1	c per volume of		Mass of VOC per volume		
	coating less w	ater and exempt	of coatin	g solids, as		
	compound	s, as applied	ap	plied		
Coating Category	kg/l coating	lb/gal coating	kg/l solids	lb/gal solids		
Extreme High Gloss Topcoat	0.60	5.0	1.87	15.6		
High Gloss Topcoat	0.42	3.5	0.80	6.7		
Pretreatment Wash Primers	0.78	6.5	6.67	55.6		
Finish Primer/Surfacer	0.42	3.5	0.80	6.7		
High Build Primer Surfacer	0.34	2.8	0.55	4.6		
Aluminum Substrate Antifoulant Coating	0.56	4.7	1.53	12.8		
Antifouling Sealer/Tie Coat	0.42	3.5	0.80	6.7		
Other Substrate Antifoulant Coating	0.40 3.4 0.75 6.					
All other pleasure craft surface coatings for metal or plastic	0.42	3.5	0.80	6.7		

Table 310 CMR 7.18(11)(d)2.d.

RACT Emission Limitations for Motor Vehicle Materials					
	Mass of VOC per volume of coating less water and				
	exempt compound	s, as applied			
Coating Category	kg/l coating	lb/gal coating			
Motor vehicle cavity wax;					
Motor vehicle sealer;					
Motor vehicle deadener;	0.65	5.4			
Motor vehicle underbody coating;					
Motor vehicle trunk interior coating					
Motor vehicle bedliner;	0.20	17			
Motor vehicle gasket/gasket sealing material	0.20 1.7				
Motor vehicle lubricating wax/compound	0.70	5.8			

3. Any person may achieve an overall VOC control efficiency of at least 90% by weight using add-on air pollution capture and control equipment instead of complying with the requirements of 310 CMR 7.18(11)(d)2.

(e) <u>Application Methods</u>. Unless complying with 310 CMR 7.18(11)(a)2. or 3. by means

- of 310 CMR 7.18(11)(d)3., all coatings shall be applied using one or more of the following: 1. electrostatic spray application;
 - HVLP spray;
 - 3. flow coat;
 - 4. roller coat;
 - 5. dip coat, including electrodeposition;
 - 6. airless spray;
 - 7. air-assisted airless spray; or

8. a coating application method capable of achieving a transfer efficiency equivalent to or greater than that achieved by HVLP, as approved by EPA.

(f) <u>Work Practices for Coating and Cleaning Operations</u>. Any person subject to 310 CMR 7.18(11) shall comply with the work practices of 310 CMP 7.18(31)(a)

- 7.18(11) shall comply with the work practices of 310 CMR 7.18(31)(e).
- (g) Plan and Extension Submittal Requirements.

1. Any person subject to 310 CMR 7.18(11)(a)1., 2., or 3. who chooses to install add-on air pollution capture and control equipment to comply with 310 CMR 7.18(11)(d) shall submit an emission control plan in accordance with 310 CMR 7.18(20).

2. Any person subject to 310 CMR 7.18(11)(a)2. or 3. who chooses to apply for an extension under 310 CMR 7.18(11)(c) shall comply with 310 CMR 7.18(20).

(h) <u>Recordkeeping Requirements</u>. Any person subject to 310 CMR 7.18(11)(a) shall prepare and maintain records sufficient to demonstrate compliance consistent with 310 CMR 7.18(2). Records kept to demonstrate compliance shall be kept on site for five years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved compliance plan or upon request. Such records shall include, but are not limited to: 1 identity, quantity, formulation and density of coating(s) used;

2. identity, quantity, formulation and density of any diluent(s) and clean-up solvent(s) used;

3. solids content of any coating(s) used;

4. actual operational and emissions characteristics of the coating line and any appurtenant emissions capture and control equipment;

5. quantity of product processed, if necessary to determine emissions; and

6. any other requirements specified by the Department in any approval(s) or order(s) issued to the person.

(i) <u>Testing Requirements</u>. Any person subject to 310 CMR 7.18(11)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(11). Testing shall be conducted in accordance with EPA Method 24 or Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA. If acceptable to the Department and EPA, manufacturer's formulation data may be used to demonstrate compliance with coating VOC content limitations. In the case of a dispute, the VOC content determined using the EPA Method shall prevail, unless a person is able to demonstrate to the Department and EPA that the manufacturer's formulation data are correct. EPA Method 25A shall be used when:

1. an exhaust concentration of less than or equal to 50 parts per million volume (ppmv) as carbon is required to comply with the applicable limitation;

2. the inlet concentration and the required level of control results in an exhaust concentration of less than or equal to 50 ppmv as carbon; or

3. the high efficiency of the control device alone results in an exhaust concentration of less than or equal to 50 ppmv as carbon.

(12) <u>U Packaging Rotogravure and Packaging Flexographic Printing</u>.

(a) <u>Applicability</u>.

1. On or after January 1, 1994, and before March 9, 2020, no person who owns, leases, operates or controls packaging rotogravure printing lines, which have the potential to emit equal to or greater than 50 tons per year of volatile organic compounds (VOC) shall cause, suffer, allow or permit the operation of said lines unless the requirements of 310 CMR 7.18(12)(d)1. and (f) through (h) are met.

2. On or after March 9, 2020, any person who owns, leases, operates or controls a packaging rotogravure printing line or packaging flexographic printing line, which has the potential to emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 25 tons per rolling 12-month period of VOC shall comply with 310 CMR 7.18(12)(c), (d)2., and (f) through (h) at that printing line.

3. On or after March 9, 2018, any person who owns, leases, operates, or controls packaging rotogravure printing operations or packaging flexographic printing operations and related cleaning operations which emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12-month period shall comply with 310 CMR 7.18(12)(e), (g) and (h).

(b) <u>Exemptions</u>. The requirements of 310 CMR 7.18(12)(a)2. do not apply provided the person obtains and complies with a federally enforceable emission limitation which restricts the potential emissions of the printing line to below 25 tons per year.

(c) Extensions.

1. Any person subject to 310 CMR 7.18(12)(a)2. may apply in writing to the Department for a non-renewable extension of the implementation deadline in 310 CMR 7.18(12)(a)2. by complying with 310 CMR 7.18(12)(f). The Department will consider a non-renewable extension of the deadline in 310 CMR 7.18(12)(a)2. for persons applying under 310 CMR 7.18(12)(c) until no later than March 9, 2021, provided the emission control plan submitted for approval under 310 CMR 7.18(20) meets the following criteria in addition to those of 310 CMR 7.18(20):

a. a Toxics Use Reduction Plan or a Resource Conservation Plan completed for the facility in accordance with 310 CMR 50.40 through 50.48 is submitted as part of the emission control plan;

b. the Toxics Use Reduction Plan or Resource Conservation Plan was certified by a Toxics Use Reduction Planner certified under M.G.L. c. 211 and 310 CMR 50.50 through 50.63;

c. the emission control plan proposes to reduce emissions or natural asset use, from the process or elsewhere in the facility, more than otherwise required pursuant to an applicable regulation or approval of the Department, through toxics use reduction techniques or resource conservation actions as defined in M.G.L. c. 21I; and

d. implementation of the emission control plan meets the emission limitations of 310 CMR 7.18(12)(d).

- (d) <u>Reasonably Available Control Technology Requirements</u>.
 - 1. <u>Packaging Rotogravure Printing Lines</u>.

a. The volatile portion of the ink, as applied to the substrate contains 25.0% or less by volume of volatile organic compounds and 75.0% or more by volume of water; or,

b. The ink (less water) as it is applied to the substrate contains 60.0% by volume or more non-volatile materials; or,

c. The owner or operator installs and operates:

i. A carbon adsorption system which reduces the volatile organic emissions by at least 90.0% by weight; or,

ii. an incinerator system which oxidizes at least 90.0% by weight of the volatile organic compounds emitted; or,

iii. an alternative volatile organic compound emission reduction system demonstrated to have at least 90.0% reduction efficiency by weight; and,

iv. A capture system must be used in conjunction with any emission control systems installed pursuant to 310 CMR 7.18(12)(d)1.c.i. through iii. The design and operation of said capture system must be consistent with good engineering practice and is required to provide for an overall reduction in volatile organic compound emissions of at least 65.0% where packaging rotogravure process is employed.

2. <u>Packaging Rotogravure and Packaging Flexographic Printing Lines</u>. Any person subject to 310 CMR 7.18(12)(a)2. shall limit VOC emissions by complying with one or more of 310 CMR 7.18(12)(d)2.a. or b.

a. <u>Capture and Control Requirements</u>.

i. A press first installed prior to March 14, 1995 and controlled by an add-on air pollution control device whose first installation date was prior to March 9, 2019 shall achieve at least 65.0% overall control by weight of the VOC emitted.

ii. A press first installed prior to March 14, 1995 and controlled by an add-on air pollution control device whose first installation date was on or after March 9, 2019 shall achieve at least 70.0% overall control by weight of the VOC emitted.

iii. A press first installed on or after March 14, 1995 and controlled by an addon air pollution control device whose first installation date was prior to March 9, 2019 shall achieve at least 75.0% overall control by weight of the VOC emitted.

iv. A press first installed on or after March 14, 1995 and controlled by an add-on air pollution control device whose first installation date was on or after March 9, 2019 shall achieve at least 80.0% overall control by weight of the VOC emitted.

b. <u>VOC Content Limit</u>. The volatile portion of inks, coatings and adhesives shall contain no more than either 0.8 kg VOC/kg solids applied or 0.16 kg VOC/kg material applied. The VOC content limitations may be met by averaging the VOC content of materials used on a single press (*i.e.*, within a line).

(e) <u>Work Practices and Emission Limitations for Printing and Cleaning Operations</u>.

1. Any person subject to 310 CMR 7.18(12) shall comply with the work practices of 310 CMR 7.18(31)(e).

2. Any person subject to 310 CMR 7.18(12) shall only use cleanup solutions that have a VOC composite partial pressure equal to or less than 25 mm Hg at 20° C (68°F).

- (f) <u>Plan and Extension Submittal Requirements</u>.
 - 1. Any person subject to 310 CMR 7.18(12)(a)1. or 2. who chooses to install add-on air pollution capture and control equipment to comply with 310 CMR 7.18(12)(d) shall submit an emission control plan in accordance with 310 CMR 7.18(20).

2. Any person subject to 310 CMR 7.18(12)(a)2. who chooses to apply for an extension under 310 CMR 7.18(12)(c) shall comply with 310 CMR 7.18(20).

(g) <u>Recordkeeping Requirements</u>. Any person subject to 310 CMR 7.18(12)(a) shall prepare and maintain records sufficient to demonstrate compliance consistent with 310 CMR 7.18(2). Records kept to demonstrate compliance shall be kept on-site for five years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved compliance plan or upon request. Such records shall include, but are not limited to:

identity, quantity, formulation and density of ink(s), coating(s) and adhesive(s) used;
 identity, quantity, formulation and density of any diluent(s) and clean-up solvent(s) used;

3. solids content of any ink(s), coating(s) and adhesive(s) used;

4. actual operational and emissions characteristics of the printing line and any appurtenant emissions capture and control equipment;

5. quantity of product processed, if necessary to determine emissions; and

6. any other requirements specified by the Department in any approval(s) or order(s) issued to the person.

(h) <u>Testing Requirements</u>. Any person subject to 310 CMR 7.18(12)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(12). Testing shall be conducted in accordance with EPA Method 24, Method 24A or Method 25 as described in CFR Title 40 Part 60, EPA Methods 204 and 204A through F of CFR Title 40 Part 51 Appendix M or by other methods approved by the Department and EPA. EPA Method 25A shall be used when:

1. an exhaust concentration of less than or equal to 50 parts per million volume (ppmv) as carbon is required to comply with the applicable limitation;

2. the inlet concentration and the required level of control results in an exhaust concentration of less than or equal to 50 ppmv as carbon; or

3. the high efficiency of the control device alone results in an exhaust concentration of less than or equal to 50 ppmv as carbon.

((13) <u>Reserved</u>)

(14) <u>U Paper, Film, and Foil Surface Coating</u>.

(a) <u>Applicability</u>.

1. On or after December 31, 1982, no person who owns, leases, operates, or controls a paper, film, or foil surface coating line which emits, before any application of air pollution control equipment, in excess of 15 pounds per day of volatile organic compounds (VOC) shall cause, suffer, allow or permit emissions in excess of the requirements of 310 CMR 7.18(14)(d)1. Such person shall also comply with 310 CMR 7.18(14)(f) through (h).

2. On or after March 9, 2020, any person who owns, leases, operates, or controls a paper, film, or foil surface coating line, which has the potential to emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 25 tons per rolling 12-month period of VOC shall comply with 310 CMR 7.18(14)(c), (d)2., and (f) through (h) at that coating line.

3. On or after March 9, 2018, any person who owns, leases, operates, or controls paper, film, or foil surface coating operations and related cleaning operations which emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12-month period shall comply with the work practices of 310 CMR 7.18(14)(e) for coating and cleaning operations.

4. 310 CMR 7.18(14) does not apply to coating application on or in-line with any offset lithographic, screen, letterpress, flexographic, rotogravure, or digital printing press.

(b) <u>Exemptions</u>. The requirements of 310 CMR 7.18(14)(a)2. do not apply provided the person obtains and complies with a federally enforceable emission limitation which restricts the potential emissions of the coating line to below 25 tons per year.

(c) <u>Extensions</u>. Any person subject to 310 CMR 7.18(14)(a)2. may apply in writing to the Department for a non-renewable extension of the implementation deadline in 310 CMR 7.18(14)(a)2. by complying with 310 CMR 7.18(14)(f). The Department will consider a non-renewable extension of the deadline in 310 CMR 7.18(14)(a)2. for persons applying under 310 CMR 7.18(14)(c) until no later than March 9, 2021, provided the emission control plan submitted for approval under 310 CMR 7.18(20) meets the following criteria in addition to those of 310 CMR 7.18(20):

1. a Toxics Use Reduction Plan or a Resource Conservation Plan completed for the facility in accordance with 310 CMR 50.40 through 50.48 is submitted as part of the emission control plan;

2. the Toxics Use Reduction Plan or Resource Conservation Plan was certified by a Toxics Use Reduction Planner certified under M.G.L. c. 211 and 310 CMR 50.50 through 50.63;

3. the emission control plan proposes to reduce emissions or natural asset use, from the process or elsewhere in the facility, more than otherwise required pursuant to an applicable regulation or approval of the Department, through toxics use reduction techniques or resource conservation actions as defined in M.G.L. c. 21I; and

4. implementation of the emission control plan meets the emission limitations of 310 CMR 7.18(14)(d).

(d) <u>Reasonably Available Control Technology Requirements</u>.

1. Any person subject to 310 CMR 7.18(14)(a)1. shall not exceed a limitation of 4.8 pounds of VOC per gallon of solids applied.

2. Any person subject to 310 CMR 7.18(14)(a)2. shall limit VOC emissions by complying with one or more of 310 CMR 7.18(14)(d)2.a., b., or c.

a. Achieve an overall VOC control efficiency of at least 90% by weight using addon air pollution capture and control equipment at that coating line.

b. A paper, film, or foil coating line that is not a pressure sensitive tape and label coating line shall comply with:

i. a VOC content of no greater than 0.40 pounds of VOC per pound of solids applied at that coating line; or

ii. a VOC content of no greater than 0.08 pounds of VOC per pound of coating at that coating line; or

iii. a combination of VOC content and add-on air pollution capture and control equipment to achieve an overall VOC control efficiency of at least 90% by weight; or

iv. within line averaging to achieve compliance with 310 CMR 7.18(14)(d)2.b.i. or ii.

c. A paper, film, or foil coating line that is a pressure sensitive tape and label coating line shall comply with:

i. a VOC content of no greater than 0.20 pounds of VOC per pound of solids applied at that coating line; or

ii. a VOC content of no greater than 0.067 pounds of VOC per pound of coating at that coating line; or

iii. a combination of VOC content and add-on air pollution capture and control equipment to achieve an overall VOC control efficiency of at least 90% by weight; or

iv. within line averaging to achieve compliance with 310 CMR 7.18(14)(d)2.c.i. or ii.

(e) <u>Work Practices for Coating and Cleaning Operations</u>. Any person subject to 310 CMR

7.18(14) shall comply with the work practices of 310 CMR 7.18(31)(e).

(f) <u>Plan and Extension Submittal Requirements</u>.

1. Any person subject to 310 CMR 7.18(14)(a)1. or 2. who chooses to install add-on air pollution capture and control equipment to comply with 310 CMR 7.18(14)(d) shall submit an emission control plan in accordance with 310 CMR 7.18(20).

2. Any person subject to 310 CMR 7.18(14)(a)2. who chooses to apply for an extension under 310 CMR 7.18(14)(c) shall comply with 310 CMR 7.18(20).

(g) <u>Recordkeeping Requirements</u>. Any person subject to 310 CMR 7.18(14)(a) shall prepare and maintain records sufficient to demonstrate compliance consistent with 310 CMR 7.18(2). Records kept to demonstrate compliance shall be kept on site for five years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved compliance plan or upon request. Such records shall include, but are not limited to:

1. identity, quantity, formulation and density of coating(s) used;

2. identity, quantity, formulation and density of any diluent(s) and clean-up solvent(s) used;

3. solids content of any coating(s) used;

4. actual operational and emissions characteristics of the coating line and any appurtenant emissions capture and control equipment;

5. quantity of product processed, if necessary to determine emissions; and

6. any other requirements specified by the Department in any approval(s) or order(s) issued to the person.

(h) <u>Testing Requirements</u>. Any person subject to 310 CMR 7.18(14)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(14). Testing shall be conducted in accordance with EPA Method 24 or Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA. EPA Method 25A shall be used when:

1. an exhaust concentration of less than or equal to 50 parts per million volume (ppmv) as carbon is required to comply with the applicable limitation;

2. the inlet concentration and the required level of control results in an exhaust concentration of less than or equal to 50 ppmv as carbon; or

3. the high efficiency of the control device alone results in an exhaust concentration of less than or equal to 50 ppmv as carbon.

(15) <u>U Fabric Surface Coating</u>.

(a) On or after December 31, 1982, unless granted an extension by the Department until January 1, 1987, no person who owns, leases, operates, or controls a fabric surface coating line, which emits, before any application of air pollution control equipment, in excess of 15 pounds per day of volatile organic compounds, shall cause, suffer, allow or permit emissions therefrom in excess of 4.8 pounds of volatile organic compounds per gallon of solids applied.
(b) Any person subject to 310 CMR 7.18(15)(a) shall maintain continuous compliance at all times. Compliance averaging times will be met in accordance with the requirements of 310 CMR 7.18(2)(a). Demonstrations of compliance shall not include any considerations of transfer efficiency.

(c) Any person subject to 310 CMR 7.18(15)(a) shall prepare and maintain daily records sufficient to demonstrate compliance consistent with the applicable averaging time as stated in 310 CMR 7.18(2)(a). Records kept to demonstrate compliance shall be kept on site for three years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved compliance plan or upon request. Such records shall include, but are not limited to:

1. identity, quantity, formulation and density of coating(s) used;

2. identity, quantity, formulation and density of any diluent(s) and clean-up solvent(s) used;

3. solids content of any coating(s) used;

4. actual operational and emissions characteristics of the coating line and any appurtenant emissions capture and control equipment;

5. quantity of product processed; and

6. any other requirements specified by the Department in any approval(s) and/or order(s) issued to the person.

(d) Persons subject to 310 CMR 7.18(15)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance. Testing shall be conducted in accordance with EPA Method 24 and/or Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA.

(16) <u>U Vinyl Surface Coating</u>.

(a) On or after December 31, 1982, unless granted an extension by the Department until January 1, 1987, no person who owns, leases, operates, or controls a vinyl coating line, which emits, before any application of air pollution control equipment, in excess of 15 pounds per day of volatile organic compounds shall cause allow or permit emissions therefrom in excess of 7.8 pounds of volatile organic compounds per gallon of solids applied.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

NON-TEXT PAGE

(b) Any person subject to 310 CMR 7.18(16)(a) shall maintain continuous compliance at all times. Compliance averaging times will be met in accordance with the requirements of 310 CMR 7.18(2)(a). Demonstrations of compliance shall not include any considerations of transfer efficiency.

(c) Any person subject to 310 CMR 7.18(16)(a) shall prepare and maintain daily records sufficient to demonstrate compliance consistent with the applicable averaging time as stated in 310 CMR 7.18(2)(a). Records kept to demonstrate compliance shall be kept on site for three years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved compliance plan or upon request. Such records shall include, but are not limited to:

1. identity, quantity, formulation and density of coating(s) used;

2. identity, quantity, formulation and density of any diluent(s) and clean-up solvent(s) used;

3. solids content of any coating(s) used;

4. actual operational and emissions characteristics of the coating line and any appurtenant emissions capture and control equipment;

5. quantity of product processed; and

6. any other requirements specified by the Department in any approval(s) and/or order(s) issued to the person.

(d) Persons subject to 310 CMR 7.18(16)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance. Testing shall be conducted in accordance with EPA Method 24 and/or Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA.

(17) <u>Reasonable Available Control Technology</u>.

(a) <u>Applicability</u>. 310 CMR 7.18(17) applies to any person who owns, leases, operates or controls any facility which has the potential to emit, before the application of air pollution control equipment, equal to or greater than 25 tons per year of volatile organic compounds, not including VOC emissions exempted under 310 CMR 7.18(17)(b).

(b) <u>Emissions Exemptions</u>. Emissions of volatile organic compounds from any facility which are subject to any of the following requirements are not included when determining the potential to emit, before application of air pollution control equipment, for purposes of 310 CMR 7.18(17)(a):

1. emissions of volatile organic compounds which are subject to regulation by other sections of 310 CMR 7.18, excluding 310 CMR 7.18(1), 310 CMR 7.18(2) and 310 CMR 7.18(20); or,

2. emissions of volatile organic compounds for which standards have been issued by EPA pursuant to Section 112 of the Act, from equipment subject to regulation under 40 CFR Part 61 (NESHAPS); or,

3. emissions of volatile organic compounds from equipment which, since January 1, 1990, have been reviewed and approved as Best Available Control Technology or Lowest Achievable Emission Rate imposed in an approval containing specific emission limits or work practice standards issued under a federally-enforceable regulation; or,

4. emissions of volatile organic compounds from the incomplete combustion of any material, except where the material is heated, burned, combusted or otherwise chemically changed under oxygen deficient conditions by design.

5. emissions of volatile organic compounds resulting from operations which are subject to regulation under 310 CMR 7.24.

6. emissions of volatile organic compounds from operations which since 1990 have been constructed and operated in accordance with the exemptions in 310 CMR 7.03.

(c) <u>Reasonably Available Control Technology Requirements</u>.

1. Unless granted a non-renewable extension by the Department under 310 CMR 7.18(17)(e), no person subject to 310 CMR 7.18(17)(a) shall cause, suffer, allow or permit emissions from the facility in excess of an emission rate achievable through the implementation of reasonably available control technology as required in an emission control plan approved under 310 CMR 7.18(20)(e), according to the following schedule:

a. On or after December 31, 1986 for any facility with the potential to emit equal to or greater than 100 tons per year of VOC, before the application of air pollution control equipment;

b. On or after January 1, 1994 for any facility with the potential to emit before application of air pollution control equipment, equal to or greater than 50 tpy, but less than 100 tpy, and which, since 1/1/90 has had actual emissions, before the application of air pollution control equipment, greater than 50 tons per year in any one calendar year;

c. On or after May 31, 1995 for any facility with the potential to emit, before application of air pollution control equipment, equal to or greater than 50 tpy, but less than 100 tpy, and which since 1/1/90 has had actual emissions, before the application of air pollution control equipment, less than or equal to 50 tons per year in any one calendar year;

d. If the Administrator makes a determination under Section 182(g)(3) of the Clean Air Act (CAA) that Massachusetts has failed to meet a milestone, then by May 31, 1997 or two years after the determination, whichever is later, for any facility with the potential to emit, before application of air pollution control equipment equal to or greater than 25 tpy, but less than 50 tpy, and which since 1/1/90 have had actual emissions, before the application of air pollution control equipment, greater than or equal to 25 tons per year in any one calendar year;

e. If the Administrator makes a determination under Section 182(g)(3) of the Clean Air Act (CAA) that Massachusetts has failed to meet a milestone, then by May 31, 1999 or four years after the determination, whichever is later, for any facility with the potential to emit, before application of air pollution control equipment equal to or greater than 25 tpy, but less than 50 tpy, and which since 1/1/90 have had actual emissions, before the application of air pollution control equipment, less than 25 tons per year in any one calendar year;

(d) <u>Plan Submittal Requirements</u>. Any person subject to 310 CMR 7.18(17)(a) must have the RACT emission limit approved by the Department in an emissions control plan approved under 310 CMR 7.18(20), and must submit such plan 180 days prior to the applicable implementation deadline in 310 CMR 7.18(17)(c). The Department must also submit the plan to the EPA for approval as a revision to the Massachusetts State Implementation Plan. However, any person subject to 310 CMR 7.18(17)(a) only if HOC emissions are included in the applicability determination (i.e. the facility's VOC emissions are less than the applicability threshold) is not required to have their emission control plan approved as a revision to the Massachusetts State Implementation Plan.

(e) Extensions.

1. Any person required to implement RACT according to the schedule in 310 CMR 7.18(17)(c) may apply in writing to the Department for a non-renewable extension of the implementation deadline in 310 CMR 7.18(17)(c). The person must apply to the Department for the non-renewable extension at the same time the person submits the emission control plan required by 310 CMR 7.18(20).

2. The Department will consider allowing a non-renewable extension from the original implementation deadline in 310 CMR 7.18(17)(c) which extension will not exceed one calendar year, provided the emission control plan submitted for approval under 7.18(20), meets the following criteria in addition to those of 310 CMR 7.18(20):

a. the emission control plan proposes to reduce emissions through toxics use reduction techniques defined in M.G.L. c. 21I; and,

b. the toxics use reduction techniques contained in the emission control plan are approved by a Toxics Use Reduction Planner certified under M.G.L. c. 21I; (this may be an employee at the facility who is certified as Toxics Use Reduction Planner); and, c. implementation of the plan will achieve a minimum emission reduction of 85% from the actual emissions reported under 310 CMR 7.18(20)(c)4 through toxics use reduction techniques, as calculated on a mass of VOC emitted per gallon of solids as applied or per unit of production basis; and,

d. the emission control plan also contains contingency measures to reduce emissions by 90%, as calculated on a mass of VOC emitted per gallon of solids as applied or per unit of production basis, which measures automatically take effect if the emissions reductions achieved through toxics use reduction techniques do not equal 85%, as calculated on a mass of VOC emitted per gallon of solids as applied or per unit of production basis.

3. Notwithstanding the above, no facility subject to the requirements of 310 CMR

7.18(17) prior to February 1, 1993, shall be eligible for any extension of the compliance deadline set forth in 310 CMR 7.18(17)(c)1.a.

(f) <u>Continuous Compliance</u>. Any person required to implement RACT according to the schedule in 310 CMR 7.18(17)(c) shall maintain continuous compliance at all times. Compliance averaging times will be met in accordance with the requirements of 310 CMR 7.18(2)(a). Demonstrations of compliance may include considerations of transfer efficiency provided that the baseline transfer efficiency and transfer efficiency test method are detailed in the emission control plan as approved by the Department and EPA.

(g) <u>Recordkeeping Requirements</u>. Any person required to implement RACT according to the schedule in 310 CMR 7.18(17)(c) shall prepare and maintain daily records sufficient to demonstrate compliance consistent with the applicable averaging time as stated in 310 CMR 7.18(2)(a). Records kept to demonstrate compliance shall be kept on site for five years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved emission control plan (310 CMR 7.18(20) or upon request. Such records shall include, but not be limited to:

1. identity, quantity, formulation and density of coating(s) used;

2. identity, quantity, formulation and density of any diluent(s) and clean-up solvent(s) used;

3. solids content of any coating(s) used;

4. actual operational and emissions characteristics of the coating line and any appurtenant emissions capture and control equipment;

5. quantity of product processed;

6. any other requirements specified by the Department in any approval(s) issued under 310 CMR 7.18(20) or any order(s) issued to the person.

(h) <u>Testing Requirements</u>. Any person required to implement RACT according to the schedule in 310 CMR 7.18(17)(c) shall, upon request of the Department, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(17). Testing shall be conducted in accordance with EPA Method 24 and/or Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA.

(18) <u>U Polystyrene Resin Manufacture</u>.

(a) On or after December 31, 1986, no person who owns, leases, operates, or controls a continuous process polystyrene resin manufacturing plant or facility which emits, before any application of air pollution control equipment, in excess of 15 pounds per day of volatile organic compounds, shall cause, suffer, allow or permit emissions from the material recovery section in excess of 0.12 pounds of volatile organic compounds per 1,000 pounds of product.
(b) Any person subject to 310 CMR 7.18(18)(a) shall maintain continuous compliance at all times. Compliance averaging times will be met in accordance with the requirements of 310 CMR 7.18(2)(a).

(c) Any person subject to 310 CMR 7.18(18)(a) shall prepare and maintain daily records sufficient to demonstrate compliance consistent with the applicable averaging time as stated in 310 CMR 7.18(2)(a). Records kept to demonstrate compliance shall be kept on site for three years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved compliance plan or upon request. Such records shall include, but are not limited to:

1. properties of the inlet emission stream including temperature, pressure, flow rate and composition;

- 2. properties of the inlet coolant including type, temperature and pressure;
- 3. quantity of product produced;
- 4. actual operational and emission characteristics of the manufacturing process and any appurtenant emissions capture and control equipment; and

5. any other requirements specified by the Department in any approval(s) and/or order(s) issued to the person.

(d) Persons subject to 310 CMR 7.18(18)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance. Testing shall be conducted in accordance with EPA Method 2 and Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA.

(19) Synthetic Organic Chemical Manufacture.

(a) Each person owning, leasing, or controlling the operation of a synthetic organic chemical manufacturing facility shall monitor quarterly the following components in VOC service with an organic detection instrument: each pump in light liquid service; each compressor; each valve in both gas and light liquid service; and each pressure relief valve in gas service.

(b) Each owner or operator shall monitor:

1. each pressure relief valve within 24 hours after it has vented to the atmosphere;

2. within 24 hours of discovery a component which sight, smell, or sound indicates might be leaking;

3. any component that appears to be leaking, on the basis of sight, smell, or sound, including flanges, connections, and equipment in heavy liquid service should be repaired with 15 days of the date the leak is detected.

(c) Each owner or operator shall use a VOC detection instrument and monitoring method in accordance with EPA Reference Method 21, as described in: 40 CFR part 60 Appendix A.

(d) From the date a leaking component is detected, each owner or operator shall:

1. affix within one hour a weatherproof and readily visible tag to the component, bearing an identification number and the date. This tag shall remain in place until the component is repaired.

2. repair the leaking component within 15 days; or

3. repair the leaking component at or before the next scheduled unit turnaround if not able to do so within 15 days.

(e) Each owner or operator shall visually inspect all pumps in light liquid service weekly.

(f) Except for pressure relief valves, an owner or operator shall seal all open-ended valves which are in contact with process fluid on one side of the seat and open to the atmosphere on the other side of the seat. The open-ended valves shall be sealed with one of the following: a second valve, blind flange, cap, or plug. The sealing device may be removed only when a sample is being taken or during maintenance operations.

(g) Each owner or operator shall record in an inspection log the following information for each leaking component found:

- 1. the tag identification number;
- 2. the type of component;
- 3. the date on which the leak was detected for the component;
- 4. the date on which the component was repaired;

5. identification of those leaking components which cannot be repaired until unit turnaround and the reason why repair must be delayed;

- 6. the test methods;
- 7. the result of inspection or monitoring;
- 8. the type of repair;
- 9. chemical name used in component;
- 10. name of individual responsible for repairs;
- 11. date of next unit turnaround if there is a delay in repair;
- 12. results of weekly visual leak inspections.

A copy of the inspection log shall be retained at the plant for a minimum of two years after the date on which the report for the inspection period was prepared and shall make the log available to the Department upon request.

(h) Each owner or operator shall submit to the Department a quarterly report describing the results of the monitoring program required by 310 CMR 7.18(19). As a minimum, this report should include:

1. the number and types of components that were located during the previous monitoring period but were not repaired.

2. the number and types of components inspected, the number and types of leaking components found, the number and types of components repaired, and the time elapsed before each repair was effected.

3. the number of components not repaired within 15 days and the reason why there was a delay.

(i) Any owner or operator of a facility subject to 310 CMR 7.18(19) shall:

1. submit to the Department, a leak detection and repair program by June 1, 1987. This program shall contain, as a minimum, a list of process components, a copy of the log book format, and a description of the proposed monitoring equipment.

2. submit the first quarterly report required by 310 CMR 7.18(19)(i) by December 1, 1987 or within 120 days of the date the owner or operator first becomes subject to 310 CMR 7.18(19).

(j) The Department shall receive notice in writing ten days prior to the scheduled monitoring so that the Department has the opportunity to observe the monitoring procedure as described in 310 CMR 7.18(19)(a) and (b).

(k) The Department will review and make determination on requests for exemptions to 310 CMR 7.18(19) in the following categories:

1. components that are considered unsafe to monitor because of extreme temperatures, pressures, at a height of more than two meters above a permanent support surface, or for other reasons are exempt from quarterly monitoring if the owner requests a waiver from the Department and monitors at least once a year.

2. SOCMI facilities handling less than 980 tons per year (890 Mg/yr) of VOC.

3. To implement a skip period monitoring program the owner or operator will begin with a quarterly leak detection and repair program for valves. If the desired "good performance level" of 2% or less of valves leaking was attained for valves in gas service and light liquid service for five consecutive quarters, then three of the subsequent quarterly leak detection and repair periods for these valves could be skipped. All valves would be monitored again during the fourth quarter. This would permit a process unit which has consistently demonstrated it is meeting the "good performance level" to monitor valves in gas service and valves in light liquid service annually instead of quarterly. If an inspection showed that the "good performance level" was not being achieved, then quarterly inspections of valves would be reinstituted until a "good performance level" was being achieved for five consecutive quarters. At that time the skip period inspection would be resumed. Only valves are allowed to be monitored at skip period intervals; all other equipment components would not skip monitoring intervals and would be subject to their required quarterly monitoring.

(20) Emission Control Plans for Implementation of Reasonably Available Control Technology.
(a) General Applicability and Submittal Requirements. Any person who owns, leases, operates or controls a facility that becomes subject to 310 CMR 7.18 and who is required to submit an emission control plan pursuant to 310 CMR 7.18 after January 1, 1992, shall submit an emission control plan to the Department for review and approval by the Department prior to implementation of RACT. In addition, an emission control plan is required to amend an emissions averaging plan issued pursuant to 310 CMR 7.18(2)(b) or (g), or an approval issued under 310 CMR 7.18(2)(h).

1. The emission control plan must be submitted to the Department within 180 days of the date the facility or part of a facility first meets the applicability requirements of 310 CMR 7.18, or the date of promulgation for that section of 310 CMR 7.18, whichever is latest.

2. An emission control plan is not required if all operations at the facility for which an approval under 310 CMR 7.18(20) would otherwise be required:

a. are installed in accordance with:

i. a plan approval issued pursuant to 310 CMR 7.02(4) or (5) that meets the standards/limits of 310 CMR 7.18;

ii. the requirements contained in 310 CMR 7.03; or

iii. the requirements of 310 CMR 7.26, or

b. are exempt from filing for plan approval pursuant to 310 CMR 7.02(2)(b), except for 310 CMR 7.02(2)(b)32. This exemption does not apply to construction, substantial reconstruction, or alteration required to comply with the requirements of 310 CMR 7.18.

(b) <u>Other Applicability and Submittal Requirements</u>. Any person subject to 310 CMR 7.18, when so required by the Department in writing, shall submit an emission control plan to the Department for review and approval by the Department.

(c) <u>Emission Control Plan Requirements</u>. The emission control plan must detail how RACT will be implemented at the facility which is subject to 310 CMR 7.18. Each plan submitted under 310 CMR 7.18(20) shall, at a minimum, include the following:

1. a list and description of all the equipment at the facility which has the potential to emit VOC, including any associated plan approvals, dates of installation, any subsequent alterations, etc.;

2. a list of all the VOC emitting equipment at the facility for which the emission control plan is being submitted;

3. the potential to emit, before application of air pollution control equipment, before implementation of RACT, on a daily and annual basis, of all VOC emitting equipment for which the emission control plan is being submitted;

4. the actual emissions before implementation of RACT on a daily and annual basis of all VOC emitting equipment for which the emission control plan is being submitted;

if applicable, the designs, specifications and standard operating and maintenance procedures for any VOC emissions capture and control system used to implement RACT;
 if applicable, the designs and specifications of any low-VOC emitting processes or reformulations used to implement RACT;

7. the testing, monitoring, recordkeeping and reporting procedures used to demonstrate compliance with the applicable sections of 310 CMR 7.18;

8. a schedule for the implementation of RACT at the facility by the deadline contained in the applicable section of 310 CMR 7.18, including provisions for demonstrating to the Department periodic increments of progress;

9. any other information required by the Department, and;

10. the signature of a responsible official.

(d) <u>Additional Requirements for Demonstration of RACT</u>. An emission control plan submitted by any person who owns, leases, operates or controls a facility or part of a facility subject to 310 CMR 7.18(2)(c) or (17), must meet the following requirements, in addition to those of 310 CMR 7.18(20)(c).

1. The plan must contain a demonstration and description of the RACT emission limit(s) for this facility or part of a facility; and,

2. any information necessary to support the demonstration made in 310 CMR 7.18(20)(d)1, such as technological and economic considerations, industry surveys, customer considerations, etc.

(e) <u>Approval of an Emission Control Plan by the Department</u>.

1. For persons not subject to 310 CMR 7.18(2)(b), (c), or (17), the Department shall, within the timetables established in 310 CMR 4.10, issue a final approval or disapproval of the ECP.

2. For persons subject to 310 CMR 7.18(2)(b), (c), or (17) for each ECP application where the information submitted subject to 310 CMR 7.18(20)e.2. is sufficient to support both the determination of RACT and the proposed schedule; the Department shall:

a. Provide a 30-day period for submittal of public comment;

b. Post on a public website identified by the Department (which may be the Department's own website), for the duration of the public comment period, the following:

i. Notice of availability of the Department's proposed decision to approve or deny the ECP application and information on how to submit public comment;

ii. The Department's proposed decision to approve or deny the ECP application;

iii. Information on how to access the administrative record for the Department's proposed decision to approve or deny the ECP application.

c. Send a copy of the notice required under 310 CMR 7.18(20)(e)2.b.i. to EPA.

(f) <u>Prohibition</u>. No emissions reductions or any other actions taken at any facility or part of a facility will constitute implementation of RACT at that facility, unless those emission reductions or other actions are part of an emission control plan approved by the Department. (g) Additional requirements may be included in the emission control plan approval to ensure that emissions from the unit(s) subject to RACT will not cause or contribute to a condition of air pollution or a violation of any other regulation. Such requirements include, but are not limited to, emissions limits on other air contaminants, and additional stack testing or emissions monitoring requirements.

(21) Surface Coating of Plastic Parts.

(a) <u>Applicability</u>.

1. On or after March 9, 2020, any person who owns, leases, operates, or controls plastic parts surface coating operations and related cleaning operations which emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of volatile organic compounds (VOC) per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12-month period shall comply with 310 CMR 7.18(21)(c) through (e) and (g) through (i).

2. On or after March 9, 2020, any person who owns, leases, operates, or controls plastic parts surface coating operations and miscellaneous metal parts and products surface coating operations and related cleaning operations within the same facility, which in total emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12-month period shall comply with 310 CMR 7.18(21)(c) through (e) and (g) through (i). The miscellaneous metal parts and products surface coating operations are subject to 310 CMR 7.18(11).

3. On or after March 9, 2018, any person who owns, leases, operates, or controls plastic parts surface coating operations and miscellaneous metal parts and products surface coating operations and related cleaning operations which emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12-month period shall comply with the work practices of 310 CMR 7.18(21)(f) for coating and cleaning operations.

(b) Exemptions.

1. The plastic parts coatings requirements of 310 CMR 7.18(21)(d)1. and 2. do not apply to:

- a. touch-up and repair coatings;
- b. stencil coatings applied on clear or transparent substrates;
- c. clear or translucent coatings;

d. coatings applied at a paint manufacturing facility while conducting performance tests on the coatings;

e. reflective coating applied to highway cones;

f. mask coatings that are less than 0.5 millimeter thick (dried) and the area coated is less than 25 square inches;

g. EMI/RFI shielding coatings; or

h. heparin-benzalkonium chloride (HBAC)-containing coatings applied to medical devices, provided that the total usage of all such coatings does not exceed 100 gallons per rolling 12-month period, per facility.

2. The automotive/transportation coatings requirements of 310 CMR 7.18(21)(d)1.b. and 2., and the business machine coatings requirements of 310 CMR 7.18(21)(d)1.c. and 2., do not apply to:

- a. texture coatings;
- b. vacuum metallizing coatings;
- c. gloss reducers;
- d. texture topcoats;
- e. adhesion primers;
- f. electrostatic preparation coatings;

- g. resist coatings; or
- h. stencil coatings.

3. The requirements of 310 CMR 7.18(21)(e) do not apply to airbrush operations using five gallons or less per rolling 12-month period of coating at a plastic parts coating operation.

4. The requirements of 310 CMR 7.18(21)(e) do not apply to pleasure craft surface coating operations when applying extreme high-gloss coatings.

5. The requirements of 310 CMR 7.18(21)(d) and (e) do not apply to powder coatings or coating application utilizing hand-held aerosol cans.

6. The requirements of 310 CMR 7.18(21)(d), (e), and (f) do not apply to aerospace manufacturing and rework operations.

(c) <u>Extensions</u>. Any person subject to 310 CMR 7.18(21)(a)1. or 2. may apply in writing to the Department for a nonrenewable extension of the implementation deadline in 310 CMR 7.18(21)(a)1. or 2. by complying with 310 CMR 7.18(21)(g).

The Department will consider a nonrenewable extension of the deadline in 310 CMR 7.18(21)(a)1. or 2. for persons applying under 310 CMR 7.18(21)(c) until no later than March 9, 2021, provided the emission control plan submitted for approval under 310 CMR 7.18(20), meets the following criteria in addition to those of 310 CMR 7.18(20):

1. a Toxics Use Reduction Plan or a Resource Conservation Plan completed for the facility in accordance with 310 CMR 50.40 through 50.48 is submitted as part of the emission control plan;

2. the Toxics Use Reduction Plan or Resource Conservation Plan was certified by a Toxics Use Reduction Planner certified under M.G.L. c. 21I, and 310 CMR 50.50 through 50.63;

3. the emission control plan proposes to reduce emissions or natural asset use, from the process or elsewhere in the facility, more than otherwise required pursuant to an applicable regulation or approval of the Department, through toxics use reduction techniques or resource conservation actions as defined in M.G.L. c. 21I; and

4. implementation of the emission control plan meets the emission limitations of 310 CMR 7.18(21)(d).

(d) <u>RACT Emissions Limitations</u>.

1. Any person subject to 310 CMR 7.18(21)(a)1. or 2. shall limit VOC emissions by using only coatings having a VOC content no greater than the emission limitations listed in Tables 310 CMR 7.18(21)(d)1.a. through e. (low-VOC coatings to meet the mass of VOC per volume of coating less water and exempt compounds, as-applied, limits, or low-VOC coatings or a combination of coatings and add-on control equipment on a coating unit to meet the mass of VOC per volume of coating solids limits) or by complying with the requirement in 310 CMR 7.18(21)(d)2. If a coating can be classified in more than one coating category in 310 CMR 7.18(21)(d), then the least stringent coating category limitation shall apply.

Table 310 CMR 7.18(21)(d)1.a.					
RACT Emission Limitations for Surface Coating of Miscellaneous Plastic Parts					
		per volume of	Mass of VOC per volume of		
	coating les	s water and	coating solids, as applied		
	exempt cor	npounds, as			
		lied			
Coating Category	kg/l coating	lb/gal coating	kg/l solids	lb/gal solids	
General, One Component	0.28	2.3	0.40	3.35	
General, Multi-component	0.42	3.5	0.80	6.67	
Electric Dissipating Coatings and	0.80	6.7	8.96	74.7	
Shock-free Coatings	0.80	0.7	8.90	/4./	
Extreme Performance (two-pack)	0.42	3.5	0.80	6.67	
Military Specification (one-pack)	0.34	2.8	0.54	4.52	
Military Specification (two-pack)	0.42	3.5	0.80	6.67	
Metallic	0.42	3.5	0.80	6.67	
Mold-seal	0.76	6.3	5.24	43.7	
Multi-colored Coatings	0.68	5.7	3.04	25.3	
Optical Coatings	0.80	6.7	8.96	74.7	
Vacuum-metallizing	0.80	6.7	8.96	74.7	

Т	able 310 CMR 7.	18(21)(d)1.b.		
RACT Emission Limitations for Automotive/Transportation Coatings ¹				
	Ĩ	per volume of	Mass of VOC per volume	
	coating less wa	iter and exempt	of coating solids, as	
	compounds	s, as applied	applied	
Coating Category	kg/l coating	lb/gal coating	kg/l solids	lb/gal solids
High Bake Coatings - Interior				
and Exterior Parts				
Flexible Primer	0.54	4.5	1.39	11.58
Non-flexible Primer	0.42	3.5	0.80	6.67
Basecoat	0.52	4.3	1.24	10.34
Clear Coat	0.48	4.0	1.05	8.76
Non-Basecoat/Clear Coat	0.52	4.3	1.24	10.34
Low Bake/Air-dried coatings-				
Exterior Parts				
Primers	0.58	4.8	1.66	13.80
Basecoat	0.60	5.0	1.87	15.59
Clear Coat	0.54	4.5	1.39	11.58
Non-basecoat/Clear Coat	0.60	5.0	1.87	15.59
Low Bake/Air-dried Coatings - Interior Parts	0.60	5.0	1.87	15.59
Touchup and Repair Coatings	0.62	5.2	2.13	17.72

 1 For automotive coatings which are red, yellow, and black, except touch-up and repair coatings, the limitation is determined by multiplying the appropriate limitation in Table 310 CMR 7.18(21)(d)1.b. by 1.15.

Table 310 CMR 7.18(21)(d)1.c.							
RACT Emission Limitations for Business Machine Coatings							
	Mass of VOC per volume of Mass of VOC per volume of						
	coating less water and exempt coating solids, as app						
compounds, as applied							
Coating Category	kg/l coating	kg/l coating lb/gal coating		lb/gal solids			
Primers	0.35	2.9	0.57	4.80			
Topcoat	0.35	2.9	0.57	4.80			
Texture Coat	0.35	2.9	0.57	4.80			
Fog Coat ¹	0.26 2.2 0.38 3.14						
Touchup and Repair	0.35	2.9	0.57	4.80			

¹ A fog coat shall not be applied at a thickness of more than 0.5 mils of coating solids.

Table 310 CMR 7.18(21)(d)1.d.				
RACT Emission Limitations for Pleasure Craft Surface Coatings				
		C per volume	Mass of VOC per	
		ess water and		of coating
	-	mpounds, as	solids, a	as applied
		plied		
Coating Category	kg/l coating	lb/gal coating	kg/l	lb/gal
			solids	solids
Extreme High Gloss Topcoat	0.60	5.0	1.87	15.6
High Gloss Topcoat	0.42	3.5	0.80	6.7
Pretreatment Wash Primers	0.78	6.5	6.67	55.6
Finish Primer/Surfacer	0.42	3.5	0.80	6.7
High Build Primer Surfacer	0.34	2.8	0.55	4.6
Aluminum Substrate Antifoulant	0.56	4.7	1.53	12.8
Coating				
Antifouling Sealer/Tie Coat	0.42	3.5	0.80	6.7
Other Substrate Antifoulant Coating	0.40	3.4	0.75	6.3
All other pleasure craft surface coatings for metal or plastic	0.42	3.5	0.80	6.7

Table 310 CMR 7.18(21)(d)1.e. RACT Emission Limitations for Motor Vehicle Materials			
	Mass of VOC per volume of coating less water and exempt compounds, as applied		
Coating Category	kg/l coating lb/gal coating		
Motor vehicle cavity wax; Motor vehicle sealer; Motor vehicle deadener; Motor vehicle underbody coating; Motor vehicle trunk interior coating	0.65	5.4	
Motor vehicle bedliner; Motor vehicle gasket/gasket sealing material	0.20	1.7	
Motor vehicle lubricating wax/compound	0.70	5.8	

2. Any person may achieve an overall VOC control efficiency of at least 90% by weight using add-on air pollution capture and control equipment instead of complying with the requirements of 310 CMR 7.18(21)(d)1.

(e) Application Methods. Unless complying with 310 CMR 7.18(21)(a)1. or 2. by means of 310 CMR 7.18(21)(d)2., all coatings shall be applied using one or more of the following:

1. electrostatic spray application;

HVLP spray;
 flow coat;

4. roller coat;

5. dip coat, including electrodeposition;

6. airless spray;

7. air-assisted airless spray; or

8. a coating application method capable of achieving a transfer efficiency equivalent to or greater than that achieved by HVLP, as approved by EPA.

(f) Work Practices for Coating and Cleaning Operations. Any person subject to 310 CMR 7.18(21) shall comply with the work practices of 310 CMR 7.18(31)(e).

(g) Plan and Extension Submittal Requirements.

1. Any person subject to 310 CMR 7.18(21)(a)1. or 2. who chooses to install add-on air pollution capture and control equipment to comply with 310 CMR 7.18(21)(d) shall submit an emission control plan in accordance with 310 CMR 7.18(20).

2. Any person subject to 310 CMR 7.18(21)(a)1. or 2. who chooses to apply for an extension under 310 CMR 7.18(21)(c) shall comply with 310 CMR 7.18(20).

(h) <u>Recordkeeping Requirements</u>. Any person subject to 310 CMR 7.18(21)(a) shall prepare and maintain records sufficient to demonstrate compliance consistent with 310 CMR 7.18(2). Records kept to demonstrate compliance shall be kept on site for five years and shall be made available to representatives of the Department and EPA upon request. Such records shall include, but are not limited to:

1. identity, quantity, formulation and density of coating(s) used;

2. identity, quantity, formulation and density of any diluent(s) and clean-up solvent(s) used;

3. solids content of any coating(s) used;

4. actual operational and emissions characteristics of the coating line and any appurtenant emissions capture and control equipment;

5. quantity of product processed, if necessary to determine emissions; and

6. any other requirements specified by the Department in any approval(s) issued under 310 CMR 7.18(20) or any order(s) issued to the person.

(i) <u>Testing Requirements</u>. Any person subject to 310 CMR 7.18(21)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(21). Testing shall be conducted in accordance with EPA Method 24 or Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA. If acceptable to the Department and EPA, manufacturer's formulation data may be used to demonstrate compliance with coating VOC content limitations. In the case of a dispute, the VOC content determined using the EPA Method shall prevail, unless a person is able to demonstrate to the satisfaction of the Department and EPA that the manufacturer's formulation data are correct. EPA Method 25A shall be used when:

1. an exhaust concentration of less than or equal to 50 parts per million volume (ppmv) as carbon is required to comply with the applicable limitation;

2. the inlet concentration and the required level of control results in an exhaust concentration of less than or equal to 50 ppmv as carbon; or

3. the high efficiency of the control device alone results in an exhaust concentration of less than or equal to 50 ppmv as carbon.

(22) Leather Surface Coating.

(a) <u>Applicability</u>. 310 CMR 7.18(22) applies in its entirety to any person who owns, leases, operates or controls leather surface coating line(s) which in total have the potential to emit, before the application of air pollution control equipment, equal to or greater than 50 tons per year of volatile organic compounds.

(b) <u>Reasonably Available Control Technology Requirements</u>. On or after January 1, 1994, unless exempted by 310 CMR 7.18(22)(c) or granted a non-renewable extension by the Department under 310 CMR 7.18(22)(d), no person subject to 310 CMR 7.18(22)(a) shall cause, suffer, allow or permit emissions from any leather surface coating line in excess of 27.4 lbs VOC/gallon of solids as applied.

(c) <u>Exemptions</u>. The requirements of 310 CMR 7.18(22)(b) do not apply to:

1. a. any person subject to 310 CMR 7.18(22)(a) who is able to demonstrate to the Department that, since January 1, 1990, the leather surface coating line(s) have not, in total, emitted, before the application of air pollution control equipment, greater than or equal to 50 tons per year of volatile organic compounds; and

b. provided the person obtains and complies with a federally enforceable emission limit which restricts the potential emissions to below 50 tons per year; and

c. provided the person complies with of 310 CMR 7.18(22)(h).

2. any person subject to 310 CMR 7.18(22)(a) who, according to the Department, has complied with 310 CMR 7.18(17) prior to January 1, 1993.

(d) Extensions.

1. Any person subject to 310 CMR 7.18(22)(b) may apply in writing to the Department for a non-renewable extension of the implementation deadline. The person must apply to the Department for the non-renewable extension at the same time the person submits the emission control plan required by 310 CMR 7.18(20).

a. the emission control plan proposes to reduce emissions through toxics use reduction techniques as defined in M.G.L. c. 211; and,

b. the toxics use reduction techniques contained in the emission control plan are approved by a Toxics Use Reduction Planner certified under M.G.L. c. 21I; (this may be an employee at the facility who is certified as Toxics Use Reduction Planner); and,

c. implementation of the plan must meet the emission limitations of 310 CMR 7.18(22)(b) or achieve a 85% emissions reduction, whichever is greater, through toxics use reduction techniques, as calculated on a mass of VOC emitted per gallons of solids as applied or per unit of production; and,

d. the emission control plan must also contain contingency measures to meet the RACT emission limitation in 310 CMR 7.18(22)(b); such measures must automatically take effect if the emissions reductions through toxics use reduction techniques do not satisfy 310 CMR 7.18(22)(b).

(e) <u>Plan Submittal Requirements</u>. Any person who owns, leases, operates or controls a leather surface coating line(s) subject to 310 CMR 7.18(22)(a) must submit an emissions control plan, and have the plan approved by the Department under 310 CMR 7.18(20).

(f) <u>Continuous Compliance</u>. Any person who owns, leases, operates or controls a leather surface coating line(s) subject to 310 CMR 7.18(22)(a) shall maintain continuous compliance at all times with their approved emissions control plan. Compliance averaging times will be met in accordance with the requirements of 310 CMR 7.18(2)(a). Demonstrations of compliance may include considerations of transfer efficiency provided that the baseline transfer efficiency is equal to or greater than 65%, and the transfer efficiency test method is detailed in the emission control plan (310 CMR 7.18(20)) approved by the Department.

(g) <u>Recordkeeping Requirements</u>. Any person who owns, leases, operates or controls a leather surface coating line(s) subject to 310 CMR 7.18(22)(a) shall prepare and maintain daily records sufficient to demonstrate compliance consistent with the applicable averaging time as stated in 310 CMR 7.18(2)(a). Records kept to demonstrate compliance shall be kept on site for five years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved emission control plan (310 CMR 7.18(20) or upon request. Such records shall include, but are not limited to:

1. identity, quantity, formulation and density of coating(s) used;

2. identity, quantity, formulation and density of any diluent(s) and clean-up solvent(s) used;

3. solids content of any coating(s) used;

4. actual operational and emissions characteristics of the coating line and any appurtenant

emissions capture and control equipment; 5. quantity of product processed;

6. any other requirements specified by the Department in any approval(s) issued under 310 CMR 7.18(20) or any order(s) issued to the person.

(h) <u>Testing Requirements</u>. Any person who owns, leases, operates or controls a leather surface coating line(s) subject to 310 CMR 7.18(22)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(22). Testing shall be conducted in accordance with EPA Method 24 and/or Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA.

(23) <u>Wood Products Surface Coating</u>.

(a) <u>Applicability</u>. 310 CMR 7.18(23) applies in its entirety to any person who owns, leases, operates or controls wood products surface coating line(s) which in total have the potential to emit, before the application of air pollution control equipment, equal to or greater than 50 tons per year of volatile organic compounds.

(b) <u>Reasonably Available Control Technology Requirements</u>. On or after January 1, 1994, unless exempted by 310 CMR 7.18(23)(c) or granted a non-renewable extension by the Department under 310 CMR 7.18(23)(d), no person subject to 310 CMR 7.18(23)(a) shall cause, suffer, allow or permit emissions from any wood products surface coating line in excess of the emission limitations set forth in 310 CMR 7.18(23)(e).

(c) <u>Exemptions</u>. The requirements of 310 CMR 7.18(23)(b) do not apply to:

1. a. any person subject to 310 CMR 7.18(23)(a) who is able to demonstrate to the Department that, since January 1, 1990, the wood products surface coating line(s) have not, in total, emitted, before the application of air pollution control equipment, greater than or equal to 50 tons per year of volatile organic compounds; and

b. provided the person obtains and complies with a federally enforceable emission limit which restricts the potential emissions to below 50 tons per year; and

- c. provided the person complies with of 310 CMR 7.18(23)(i).
- 2. any person subject to 310 CMR 7.18(23)(a) who, according to the Department, has complied with 310 CMR 7.18(17) prior to January 1, 1993.
- (d) Extensions.

1. Any person subject to 310 CMR 7.18(23)(b) may apply in writing to the Department for a non-renewable extension of the implementation deadline in 310 CMR 7.18(23)(b). The person must apply to the Department for the non-renewable extension at the same time the person submits the emission control plan required by 310 CMR 7.18(20) and (23)(e).

2. The Department will consider a non-renewable extension of the deadline in 310 CMR 7.18(23)(b) until no later than January 1, 1995, provided the emission control plan submitted for approval 310 CMR 7.18(20), meets the following criteria in addition to those of 310 CMR 7.18(20):

a. the emission control plan proposes to reduce emissions through toxics use reduction techniques as defined in M.G.L. c. 21I; and,

b. the toxics use reduction techniques contained in the emission control plan are approved by a Toxics Use Reduction Planner certified under M.G.L. c. 21I; (this may be an employee at the facility who is certified as Toxics Use Reduction Planner); and,

c. implementation of the plan must meet the emission limitations of 310 CMR 7.18(23)(e) or achieve a 85% reduction in emissions, whichever is greater, through toxics use reduction techniques, as calculated on a mass of VOC emitted per gallon of solids as applied or per unit of production; and,

d. the emission control plan must also contain contingency measures to meet RACT emission limitations of 310 CMR 7.18(23)(e); such measures must automatically take effect if the emissions reductions achieved through toxics use reduction techniques do not satisfy 310 CMR 7.18(23)(e).

(e) <u>RACT Emissions Limitations</u>. Any person subject to 310 CMR 7.18(23)(b) shall comply with the emissions limitations in Table 310 CMR 7.18(23)(e)1. If more than one emission limitation applies then, the coating must comply with the least stringent emission limitation.

Table 310 CMR 7.18(23)(e)1. RACT Emission Limitations for Surface Coating of Wood Products

Emission Source	Emission Limitation (lbs VOC/gal solids as applied)
Semitransparent stain	89.4
Wash coat	35.6
Opaque stain	13.0
Sealer	23.4
Pigmented coat	15.6
Clear topcoat	23.4

(f) <u>Plan Submittal Requirements</u>. Any person who owns, leases, operates or controls a wood products surface coating line(s) subject to 310 CMR 7.18(23)(a) must submit an emissions control plan, and have the plan approved by the Department under 310 CMR 7.18(20).

(g) <u>Continuous Compliance</u>. Any person who owns, leases, operates or controls a wood products surface coating line(s) subject to 310 CMR 7.18(23)(a) shall maintain continuous compliance at all times with their approved emissions control plan. Compliance averaging times will be met in accordance with the requirements of 310 CMR 7.18(2)(a). Demonstrations of compliance may include considerations of transfer efficiency provided that the baseline transfer efficiency is greater than 65%, and the transfer efficiency test method is detailed in the emission control plan (310 CMR 7.18(20)) approved by the Department.

(h) <u>Recordkeeping Requirements.</u> Any person who owns, leases, operates or controls a wood products surface coating line(s) subject to 310 CMR 7.18(23)(a) shall prepare and maintain daily records sufficient to demonstrate compliance consistent with the applicable averaging time as stated in 310 CMR 7.18(2)(a). Records kept to demonstrate compliance shall be kept on site for five years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved emission control plan (310 CMR 7.18(20) or upon request. Such records shall include, but are not limited to:

1. identity, quantity, formulation and density of coating(s) used;

2. identity, quantity, formulation and density of any diluent(s) and clean-up solvent(s) used;

3. solids content of any coating(s) used;

4. actual operational and emissions characteristics of the coating line and any appurtenant emissions capture and control equipment;

5. quantity of product processed;

6. any other requirements specified by the Department in any approval(s) issued under 310 CMR 7.18(20) or any order(s) issued to the person.

(i) <u>Testing Requirements</u>. Any person who owns, leases, operates or controls a wood products surface coating line(s) subject to 310 CMR 7.18(23)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(23). Testing shall be conducted in accordance with EPA Method 24 and/or Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA.

(24) Flat Wood Paneling Surface Coating.

(a) Applicability.

1. On or after January 1, 1994, and prior to March 9, 2020, 310 CMR 7.18(24)(d)1. and (f) through (h) apply to any person who owns, leases, operates or controls a flat wood paneling surface coating line(s) which emits, before the application of air pollution control equipment, equal to or greater than 15 pounds per day of volatile organic compounds (VOC).

2. On and after March 9, 2020, any person who owns, leases, operates, or controls flat wood paneling surface coating operations and related cleaning operations which emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12 month period shall comply with 310 CMR 7.18(24)(c), (d)2., and (f) through (h).

3. On or after March 9, 2018, any person who owns, leases, operates, or controls flat wood paneling surface coating operations and related cleaning operations which emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12 month period shall comply with the work practices of 310 CMR 7.18(24)(e) for coating and cleaning operations.

(b) <u>Exemptions</u>.

1. The requirements of 310 CMR 7.18(24)(d)1. do not apply to:

a. any person subject to 310 CMR 7.18(24)(a)1. who is able to demonstrate to the Department that, since January 1, 1990, the flat wood paneling surface coating line(s) have not, in total, emitted, before the application of air pollution control equipment, greater than or equal to 15 pounds per day of volatile organic compounds; and

b. provided the person obtains and complies with a federally enforceable emission limit which restricts the potential emissions to below 15 pounds per day; and

c. provided the person complies with the requirements of 310 CMR 7.18(24)(h).

2. The requirements of 310 CMR 7.18(24) do not apply to any person subject to 310 CMR 7.18(24)(a)1. who, according to the Department, has complied with 310 CMR 7.18(17) prior to January 1, 1993.

(c) Extensions. Any person subject to 310 CMR 7.18(24)(a)2. may apply in writing to the Department for a nonrenewable extension of the implementation deadline in 310 CMR 7.18(24)(a)2. by complying with 310 CMR 7.18(24)(f). The Department will consider a nonrenewable extension of the deadline in 310 CMR 7.18(24)(a)2. for persons applying under 310 CMR 7.18(24)(c) until no later than March 9, 2021, provided the emission control plan submitted for approval under 310 CMR 7.18(20) meets the following criteria in addition to those of 310 CMR 7.18(20):

1. a Toxics Use Reduction Plan or a Resource Conservation Plan completed for the facility in accordance with 310 CMR 50.40 through 50.48 is submitted as part of the emission control plan;

2. the Toxics Use Reduction Plan or Resource Conservation Plan was certified by a Toxics Use Reduction Planner certified under M.G.L. c. 21I, and 310 CMR 50.50 through 50.63;

3. the emission control plan proposes to reduce emissions or natural asset use, from the process or elsewhere in the facility, more than otherwise required pursuant to an applicable regulation or approval of the Department, through toxics use reduction techniques or resource conservation actions as defined in M.G.L. c. 21I; and

4. implementation of the emission control plan meets the emission limitations of 310 CMR 7.18(24)(d).

(d) <u>Reasonably Available Control Technology Requirements</u>.

1. Any person subject to 310 CMR 7.18(24)(a)1. shall comply with the emissions limits in Table 310 CMR 7.18(24)(d)1. If more than one emission limitation applies then the coating must comply with the least stringent emission limitation.

Table 310 CMR 7.18(24)(d)1.RACT Emission Limitations for Flat Wood Paneling Surface Coating			
Emission Source Emission Limitation			
	(lbs VOC/1000 square feet		
coated)			
Printed hardwood panels and thin particleboard	6.0		
panels			
Natural finish hardwood plywood panels	12.0		
Class II finish on hardboard panels 10.0			

2. Any person subject to 310 CMR 7.18(24)(a)2. shall limit VOC emissions by using only coatings having a VOC content no greater than the emission limitations in Table 310 CMR 7.18(24)(d)2. (low-VOC coatings to meet the mass of VOC per volume of coating less water and exempt compounds, as-applied, limits, or low-VOC coatings or a combination of coatings and add-on control equipment on a coating unit to meet the mass of VOC per volume of coating solids limits) or by complying with the requirement in 310 CMR 7.18(24)(d)3.

Table 310 CMR 7.18(24)(d)2.RACT Emission Limitations for Flat Wood Paneling Surface Coating				
Surface Coatings Applied to the Following Flat Wood Paneling Categories	coating less w	C per volume of ater and exempt s, as applied		OC per volume lids, as applied
	lb/gal coating	grams/l coating	lb/gal solids	grams/l solids
Printed interior panels made of hardwood, plywood, or thin particleboard; Natural finish hardwood plywood panels; Class II finish on hardboard panels; Tileboard; Exterior siding 7 18: continued	2.1	250	2.9	350

7.18: continued

3. Any person may achieve an overall VOC control efficiency of at least 90% by weight using add-on air pollution capture and control equipment instead of complying with the requirements of 310 CMR 7.18(24)(d)2.

(e) Work Practices for Coating and Cleaning Operations. Any person subject to 310 CMR

7.18(24) shall comply with the work practices of 310 CMR 7.18(31)(e).

(f) <u>Plan and Extension Submittal Requirements</u>.

1. Any person subject to 310 CMR 7.18(24)(a)1. or 2. who chooses to install add-on air pollution capture and control equipment to comply with 310 CMR 7.18(24)(d) shall submit an emission control plan in accordance with 310 CMR 7.18(20).

2. Any person subject to 310 CMR 7.18(24)(a)2. who chooses to apply for an extension under 310 CMR 7.18(24)(c) shall comply with 310 CMR 7.18(20).

(g) <u>Recordkeeping Requirements</u>. Any person subject to 310 CMR 7.18(24)(a) shall prepare and maintain records sufficient to demonstrate compliance consistent with 310 CMR 7.18(2). Records kept to demonstrate compliance shall be kept on site for five years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved emission control plan pursuant to 310 CMR 7.18(20) or upon request. Such records shall include, but are not limited to:

1. identity, quantity, formulation and density of coating(s) used;

2. identity, quantity, formulation and density of any diluent(s) and clean-up solvent(s) used;

3. solids content of any coating(s) used;

4. actual operational and emissions characteristics of the coating line and any appurtenant emissions capture and control equipment;

5. quantity of product processed, if necessary to determine emissions; and

6. any other requirements specified by the Department in any approval(s) issued under 310 CMR 7.18(20) or any order(s) issued to the person.

(h) <u>Testing Requirements</u>. Any person subject to 310 CMR 7.18(24)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(24). Testing shall be conducted in accordance with EPA Method 24 or Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA. EPA Method 25A shall be used when:

1. an exhaust concentration of less than or equal to 50 parts per million volume (ppmv) as carbon is required to comply with the applicable limitation;

2. the inlet concentration and the required level of control results in an exhaust concentration of less than or equal to 50 ppmv as carbon; or

3. the high efficiency of the control device alone results in an exhaust concentration of less than or equal to 50 ppmv as carbon.

(25) Offset Lithographic Printing and Letterpress Printing.

(a) <u>Applicability</u>.

1. On or after January 1, 1994, any person who owns, leases, operates or controls a facility with offset lithographic presses which, in total, have the potential to emit, before the application of air pollution control equipment, equal to or greater than 50 tons per year of volatile organic compounds (VOC) shall comply with 310 CMR 7.18(25)(d) through (k) and (m) through (p). On or after March 9, 2020 any person subject to 310 CMR 7.18(25)(a)1. shall comply with 310 CMR 7.18(25)(l) and is no longer subject to 310 CMR 7.18(25)(e) or (f).

2. On or after March 9, 2020, any person who owns, leases, operates or controls a heatset web offset lithographic printing press or a heatset web letterpress printing press, which has the potential to emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 25 tons per rolling 12 month period of VOC from petroleum heatset inks, shall comply with 310 CMR 7.18(25)(d), (l) and (n) through (p).

3. On or after March 9, 2020, any person who owns, leases, operates or controls offset lithographic printing operations and related cleaning operations, which emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12 month period shall comply with 310 CMR 7.18(25)(d), (g) through (k), (o), and (p).

4. On or after March 9, 2018, any person who owns, leases, operates or controls offset lithographic printing operations and related cleaning operations, or letterpress printing operations and related cleaning operations, which emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12-month period shall comply with 310 CMR 7.18(25)(m).

- (b) <u>Reasonably Available Control Technology Requirements</u>. [Reserved.]
- (c) <u>Exemptions</u>.

1. The requirements of 310 CMR 7.18(25)(a)1, with the exception of 310 CMR 7.18(25)(l), do not apply to:

a. i. any person subject to 310 CMR 7.18(25)(a)1. who is able to demonstrate to the Department that, since January 1, 1990, the offset lithographic presses have not, in total, emitted, before the application of air pollution control equipment, greater than or equal to 50 tons per year of volatile organic compounds; and

ii. provided the person obtains and complies with a federally enforceable emission limit which restricts the potential emissions of the offset lithographic presses to below 50 tons per year; and,

iii. provided the person complies with 310 CMR 7.18(25)(k), (m), and (p).

b. any person subject to 310 CMR 7.18(25) (a)1. who, according to the Department, has complied with 310 CMR 7.18(17) prior to January 1, 1993.

2. The requirements of 310 CMR 7.18(25)(a)2. do not apply provided:

a. the person obtains and complies with a federally enforceable emission limitation which restricts the potential emissions of the heatset press to below 25 tons per year;b. the person is using the heatset press for book printing; or

c. the person is using a heatset press with a maximum web width of 22 inches or less.

3. The requirements of 310 CMR 7.18(25)(a)3. do not apply provided: a. the person is using a press that has a total fountain solution reservoir of less than

one gallon; or b the person is using a press that is sheet-fed and has a maximum sheet size of 11

b. the person is using a press that is sheet-fed and has a maximum sheet size of 11 by 17 inches or smaller.

4. Any person subject to 310 CMR 7.18(25)(a)1. or 4. may use up to 110 gallons per rolling 12-month period of cleaning materials that do not meet 310 CMR 7.18(25)(m)2. Extensions

(d) <u>Extensions</u>.

1. Any person subject to 310 CMR 7.18(25)(a)2. or 3. may apply in writing to the Department for a non-renewable extension of the implementation deadline in 310 CMR 7.18(25)(a)2. or 3. by complying with 310 CMR 7.18(25)(n).

2. The Department will consider a non-renewable extension of the deadline in 310 CMR 7.18(25)(a)2. or 3. for persons applying under 310 CMR 7.18(25)(d) until no later than March 9, 2021, provided the emission control plan submitted for approval under 310 CMR 7.18(20) meets the following criteria in addition to those of 310 CMR 7.18(20):

a. Toxics Use Reduction Plan or a Resource Conservation Plan completed for the facility in accordance with 310 CMR 50.40 through 50.48 is submitted as part of the emission control plan;

b. the Toxics Use Reduction Plan or Resource Conservation Plan was certified by a Toxics Use Reduction Planner certified under M.G.L. c. 21I and 310 CMR 50.50 through 50.63;

c. the emission control plan proposes to reduce emissions or natural asset use, from the process or elsewhere in the facility, more than otherwise required pursuant to an applicable regulation or approval of the Department, through toxics use reduction techniques or resource conservation actions as defined in M.G.L. c. 21I; and,

d. implementation of the emission control plan meets the emission limitations of 310 CMR 7.18(25)(1) for persons subject to 310 CMR 7.18(25)(a)2. and 310 CMR 7.18(25)(g) through (k) for persons subject to 310 CMR 7.18(25)(a)3.

(e) <u>Heatset Offset Lithographic Requirements</u>. Any person subject to 310 CMR 7.18(25)(a)1. who owns, leases, operates, or controls a heatset offset lithographic printing press which is equipped with an air pollution control device used to reduce VOC emissions, and which device was installed on or before November 1, 1992 shall either:

1. reduce VOC emissions from the dryer exhaust vent by 85% weight; or,

2. maintain a maximum exhaust VOC concentration of 20 parts per million by volume (ppmv) of non-methane hydrocarbons as carbon in the control device exhaust, whichever is less stringent.

(f) <u>Heatset Offset Lithographic Requirements</u>. Any person subject to 310 CMR 7.18(25)(a)1. who owns, leases, operates, or controls a heatset offset lithographic printing press which is equipped with an air pollution control device used to reduce VOC emissions, and which device was installed after November 1, 1992 shall either:

1. reduce VOC emissions from the dryer exhaust vent by 90% weight; or,

2. maintain a maximum exhaust VOC concentration of 20 parts per million by volume (ppmv) of non-methane hydrocarbons as carbon in the control device exhaust, whichever is less stringent.

(g) <u>Sheet-fed Offset Lithographic Requirements</u>. Any person subject to 310 CMR 7.18(25)(a)1. or 3. who owns, leases, operates, or controls a sheet-fed offset lithographic press, and who uses alcohol in the fountain solution, shall:

1. maintain a VOC concentration of 5% or less by weight, as applied, in the fountain solution; or,

2. maintain a VOC concentration of 8% or less by weight, as applied, in the fountain solution, and refrigerate the fountain solution to a temperature below 60° F.

(h) <u>Heatset Web-fed Offset Lithographic Requirements</u>. Any person subject to 310 CMR 7.18(25)(a)1. or 3., who owns, leases, operates, or controls a heatset web-fed offset lithographic press which uses alcohol in the fountain solution, shall:

1. Maintain a VOC concentration of 1.6% or less by weight, as applied, in the fountain solution; or,

2. Maintain a VOC concentration of 3% or less by weight, as applied, in the fountain solution, and refrigerate the fountain solution to a temperature below 60° F.

(i) <u>Non-heatset Web-fed Offset Lithographic Printing Requirements</u>. Any person subject to 310 CMR 7.18(25)(a)1. or 3., who owns, leases, operates, or controls a non-heatset web-fed offset lithographic printing press, shall use zero percent alcohol in the fountain solution, and shall maintain a total VOC concentration in the fountain solution of 2.5% or less by weight.

(j) <u>Alcohol Substitute Requirements</u>. Any person subject to 310 CMR 7.18(25)(a)1. or 3., who owns, leases, operates, or controls an offset lithographic press with fountain solution with alcohol substitutes, containing a concentration of VOC in the fountain solution at 3.0% by weight or less, shall be considered in compliance with the VOC emission limitations for fountain solutions contained in 310 CMR 7.18(25).

(k) <u>Fountain Solution Mixing Requirements</u>. Any person subject to 310 CMR 7.18(25), who owns, leases, operates, or controls an offset lithographic press shall keep the fountain solution mixing tanks covered, except for necessary operator access.

(1) <u>Heatset Web Offset Lithographic Printing Press and Heatset Web Letterpress Printing Press Requirements</u>. Any person subject to 310 CMR 7.18(25)(a)2. who owns, leases, operates, or controls a heatset web offset lithographic printing press or a heatset web letterpress printing press, shall comply with 310 CMR 7.18(25)(1)1.a. or b. or 310 CMR 7.18(25)(1)2.

1. Press control requirements.

a. A heatset dryer controlled by an air pollution control device whose first installation date was prior to March 9, 2020 shall achieve at least 90% VOC control efficiency by weight.

b. A heatset dryer controlled by an air pollution control device whose first installation date was on or after March 9, 2020 shall achieve at least 95% VOC control efficiency by weight.

2. The maximum control device exhaust VOC concentration shall be 20 parts per million by volume dry basis (ppmvd) of VOC as hexane.

(m) <u>Work Practices and Emission Limitations for Printing and Cleaning Operations</u>. Any person subject to 310 CMR 7.18(25), who owns, leases, operates, or controls an offset lithographic press or letterpress printing press, and who uses cleaning solutions containing VOC to wash ink from the blanket or other accessible press components shall meet the following criteria:

1. Any person subject to 310 CMR 7.18(25) shall comply with the work practices of 310 CMR 7.18(31)(e).

2 Any person subject to 310 CMR 7.18(25) shall only use cleanup solutions that either:

a. do not exceed 70% by weight VOC; or

b. have a VOC composite partial pressure of ten mmHg or less at $20^{\circ}C$ (68°F)

(n) <u>Plan and Extension Submittal Requirements</u>.

1. Any person subject to 310 CMR 7.18(25)(a)1., 2. or 3. who chooses to install add-on air pollution capture and control equipment to comply with 310 CMR 7.18(25)(e), (f), or (l) shall submit an emission control plan in accordance with 310 CMR 7.18(20).

2. Any person subject to 310 CMR 7.18(25)(a)2. or 3. who chooses to apply for an extension under 310 CMR 7.18(25)(d) shall comply with 310 CMR 7.18(20).

(o) <u>Recordkeeping Requirements</u>. Any person subject to 310 CMR 7.18(25)(a) shall prepare and maintain records sufficient to demonstrate compliance with 310 CMR 7.18(2). Records kept to demonstrate compliance shall be kept onsite for five years and shall be made available to representatives of the Department or EPA upon request. Such records shall include, but are not limited to:

1. Identity, formulation (as determined by the manufacturer's formulation data), density, and quantity for each VOC containing material used, including but not limited to:

- a. alcohol;
- b. alcohol substitutes;
- c. fountain concentrate;
- d. printing Ink; and
- e. cleaning Solution.

2. For heatset offset lithographic printing presses and heatset offset letterpress printing presses using emissions control equipment, the recordkeeping requirements specified in 310 CMR 7.18(2)(e);

3. For offset lithographic printing presses the percent of VOC by weight in the fountain solution as monitored whenever new fountain solution is mixed, alcohol is added to the fountain solution;

4. For offset lithographic printing presses subject to the refrigeration requirements of 310 CMR 7.18(25)(g) or (h), the temperature of the fountain solution as recorded on a once per shift basis;

5. Total VOC content of each material used for each printing press subject to 310 CMR 7.18(25) (sum of 310 CMR 7.18(25)(o)1.a. through e.);

6. Total VOC content of all materials used for all printing presses subject to 310 CMR 7.18(25) (sum of 310 CMR 7.18(25)(o)5. for all printing presses); and,

7. any other requirements specified by the Department in any approval(s) issued under 310 CMR 7.18(20) or any order(s) issued to the person.

(p) <u>Testing Requirements</u>. Any person subject to 310 CMR 7.18(25)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(25). Testing shall be conducted in accordance with EPA Method 24, Method 25 or Method 25A as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA. EPA Method 25A shall be used when:

1. An exhaust concentration of less than or equal to 50 parts per million by volume (ppmv) as carbon is required to comply with the applicable limitation;

2. The inlet concentration and the required level of control results in an exhaust concentration of less than or equal to 50 ppmv as carbon; or

3. The high efficiency of the control device alone results in an exhaust concentration of less than or equal to 50 ppmv as carbon.

(26) <u>Textile Finishing</u>.

(a) <u>Applicability</u>. 310 CMR 7.18(26) applies in its entirety to any person who owns, leases, operates or controls a textile finishing facility which has the potential to emit, before the application of air pollution control equipment, equal to or greater than 50 tons per year of volatile organic compounds.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

NON-TEXT PAGE

(b) <u>Reasonably Available Control Technology Requirements</u>. On or after January 1, 1994, unless exempted by 310 CMR 7.18(26)(c), or granted a non-renewable extension by the Department under 310 CMR 7.18(26)(d), no person subject to 310 CMR 7.18(26)(a) shall cause, suffer, allow or permit emissions of volatile organic compounds in excess of the emission limitations set forth in 310 CMR 7.18(26)(e).

(c) <u>Exemptions</u>. The requirements of 310 CMR 7.18(26)(b) do not apply to:

1. a. any person subject to 310 CMR 7.18(26)(a) who is able to demonstrate to the Department that, since January 1, 1990, the textile finishing facility has not emitted, before the application of air pollution control equipment, greater than or equal to 50 tons per years of volatile organic compounds; and

b. provided the person and complies with a federally enforceable emission limit which restricts the potential emissions to below 50 tons per year; and,

- c. provided the person complies with 310 CMR 7.18(26)(i).
- 2. any person subject to 310 CMR 7.18(26)(a) who, according to the Department, has complied with 310 CMR 7.18(17) prior to January 1, 1993.
- (d) Extensions.

1. Any person subject to 310 CMR 7.18(26)(a) may apply in writing to the Department for a non-renewable extension of the implementation deadline. The person must apply to the Department for the extension at the same time the person submits the emission control plan required by 310 CMR 7.18(20).

2. The Department will consider a non-renewable extension of the deadline in 310 CMR 7.18(26)(a) until no later than January 1, 1995, provided the emission control plan submitted for approval meets the following criteria in addition to those of 310 CMR 7.18(20):

a. the emission control plan proposes to reduce emissions through toxics use reduction techniques as defined in M.G.L. c. 21I; and,

b. the toxics use reduction techniques contained in the emission control plan are approved by a Toxics Use Reduction Planner certified under M.G.L. c. 21I; (this may be an employee at the facility who is certified as Toxics Use Reduction Planner); and, c. implementation of the plan must meet the emission limitations of 310 CMR 7.18(26)(e) or achieve an 85% emissions reduction, whichever is greater, through toxics use reduction techniques, as calculated on a mass of VOC emitted per gallon of solids as applied or per unit of production; and,

d. the emission control plan must also contain contingency measures to meet the RACT emission limits of 310 CMR 7.18(26)(e); such measures must automatically take effect if the emissions reductions achieved through toxics use reduction techniques do not satisfy 310 CMR 7.18(26)(e) or achieve an 85% reduction.

(e) <u>RACT Emission Limitations</u>.

1. No person who owns, leases, operates, or controls a rotary screen or roller printing press subject to 7.18(26)(a) shall use a print paste formulation containing greater than 0.5 pound of VOC per pound of solids, as applied.

2. No person who owns, leases, operates, or controls a final finish application line subject to 7.18(26)(a) shall use a finish formulation containing greater than 0.5 pound VOC per pound of solids, as applied.

(f) <u>Plan Submittal Requirement</u>. Any person subject to 310 CMR 7.18(26)(a) must submit an emission control plan, and have the plan approved by the Department under 310 CMR 7.18(20).

(g) <u>Continuous Compliance</u>. Any person subject to 310 CMR 7.18(26)(a) shall maintain continuous compliance at all times with their approved emission control plan. Compliance averaging times will be met in accordance with the requirements of 310 CMR 7.18(2)(a).

(h) <u>Recordkeeping Requirements.</u> Any person subject to 310 CMR 7.18(26)(a) shall maintain records sufficient to demonstrate compliance. Records kept to demonstrate compliance shall be kept on site for five years and shall be made available to representatives of the Department or EPA upon request. Such records shall include, but are not limited to:

1. identity, quantity, formulation, solids content, and density of VOC containing materials used, including but not limited to:

- a. print pastes
- b. dyeing formulations
- c. finishing formulations
- d. clean up solvents;

2. actual operational and emissions characteristics of the textile finishing process equipment and any appurtenant emissions capture and control equipment;

3. quantity of textile processed; and

4. any other requirements specified by the Department in any approval(s) issued under 310 CMR 7.18(20) or any order(s) issued to the person.

(i) <u>Testing Requirements</u>. Any person subject to 310 CMR 7.18(26)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(26). Testing shall be conducted in accordance with EPA Method 24 and/or Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA.

(27) Coating Mixing Tanks.

(a) <u>Applicability</u>. On or after January 1, 1994, no person who owns, leases, operates, or controls a coating mixing tank which emits, before the application of air pollution control equipment, 15 pounds of volatile organic compounds per day shall cause, suffer, allow or permit emissions therefrom, unless the person complies with the standards set forth in 310 CMR 7.18(27)(b) and (c).

(b) Portable Coating Mixing Tank Requirements.

1. Any person subject to 310 CMR 7.18(27)(a) shall keep any portable coating mixing tanks which emits, before application of air pollution control equipment, 15 pounds per day of volatile organic compounds, covered with a lid or other method approved by the Department, except to add ingredients, take samples, or perform maintenance.

2. A lid used to comply with 310 CMR 7.18(27)(b)1. shall:

a. extend at least 0.5 inch beyond the outer rim of the tank or be attached to the rim of the tank; and,

b. be maintained so that when in place, the lid maintains contact with the rim of the portable coating mixing tank for at least 90% of the rim's circumference; and,

c. if necessary, have an opening to allow for insertion of a mixer shaft, which opening shall be covered after insertion of the mixer, except to allow adequate clearance for the mixer shaft.

(c) <u>Stationary Coating Mixing Tank Requirements</u>.

1. Any person subject to 310 CMR 7.18(27)(a) shall keep any stationary coating mixing tank, which emits, before application of air pollution control equipment, 15 pounds per day of volatile organic compounds, covered with a lid or other method approved by the Department, except to add ingredients, take samples, or perform maintenance.

2. A lid used to comply with 310 CMR 7.18(27)(c)1. shall:

a. extend at least 0.5 inch beyond the outer rim of the tank or be attached to the rim of the tank; and,

b. be maintained so that when in place, the lid maintains contact with the rim of the portable coating mixing tank for at least 90% of the rim's circumference; and,

c. if necessary, have an opening to allow for insertion of a mixer shaft, which opening shall be covered after insertion of the mixer, except to allow adequate clearance for the mixer shaft.

- (d) <u>Plan Submittal Requirement</u>. Any person subject to 310 CMR 7.18(27)(a), who is: 1. not subject to any other section of 310 CMR 7.18, excluding 310 CMR 7.18(1) and
 - (2); and,

2. who owns, leases, operates or controls a coating mixing tank facility with the potential to emit 50 tons per year of VOC, must submit an emission control plan, and have the plan approved by the Department under 310 CMR 7.18(20). Any person subject to 310 CMR 7.18(27)(a) who does not meet the two above conditions, is not required to submit an emission control plan for approval under 310 CMR 7.18(20).

(e) <u>Continuous Compliance</u>. Any person subject to 310 CMR 7.18(27)(a) shall maintain continuous compliance at all times.

(f) <u>Recordkeeping Requirements.</u> Any person subject to 310 CMR 7.18(27)(a) shall maintain records sufficient to demonstrate compliance. Records kept to demonstrate compliance shall be kept on site for five years, and shall be made available to representatives of the Department or EPA upon request. Such records shall include, but are not limited to:

1. the date and description of any repair or replacement of a mixing tank lid.

2. any other requirements specified by the Department in any approval(s) issued under 310 CMR 7.18(20) or any order(s) issued to the person.

(28) Automotive Refinishing.

(a) <u>Applicability</u>. 310 CMR 7.18(28) applies to any person who sells, offers for sale, or manufactures automotive refinishing coatings for sale in Massachusetts, or who owns, leases, operates or controls an automotive refinishing facility.

(b) <u>Reasonably Available Control Technology (RACT) Requirements</u>.

1. On or after August 1, 1995, no person subject to 310 CMR 7.18(28)(a) who manufactures automotive refinishing coatings, shall manufacture automotive refinishing coatings for sale in Massachusetts which, when prepared for use according to the manufacturer's instructions, contain VOC in excess of the limitations set forth in 310 CMR 7.18(28)(c).

2. On or after August 1, 1995, no person subject to 310 CMR 7.18(28)(a) who manufactures automotive refinishing coatings, shall manufacture automotive refinishing coating for sale in Massachusetts unless the person complies with 310 CMR 7.18(28)(d) and (k).

3. No person shall sell or offer for sale any automotive refinishing coating manufactured after August 1, 1995, unless the coating satisfies the VOC limitations and labeling requirements specified in 310 CMR 7.18(28)(c) and (d), respectively.

4. On or after August 1, 1995, no person who owns, leases, operates, or controls an automotive refinishing facility shall refinish a vehicle or any part thereof unless the person complies with the standards set forth in 310 CMR 7.18(28)(e) through (h), and any coatings used, which are manufactured after August 1, 1995, satisfy the requirements specified in 310 CMR 7.18(28)(c) and (d).

(c) <u>RACT Emission Limits</u>. No person subject to 310 CMR 7.18(28)(a) shall manufacture for sale in Massachusetts, sell, offer for sale, or apply coatings in Massachusetts which exceed the VOC emission limitations in Table 7.18(28)(c), expressed as pounds of VOC per gallon of coating and grams of VOC per liter of coating, excluding water and exempt solvents. If a coating requires the addition of a reducer, hardener, or other additive, in some combination, the manufacturer's recommended amount(s) of reducer, hardener, or other additive added must not cause the coating, as applied, to exceed the applicable VOC limitation.

TABLE 7.18(28)(c)

RACT Emission Limitations for Automotive Refinishing Products

Coating Type	VOC Emission grams/liter	Limitation lbs/gal
	-	-
Pretreatment Wash Primer	780	6.5
Primer/Primer Surfacer	575	4.8
Primer Sealer	550	4.6
Single-stage Topcoat	600	5.0
Two-stage Topcoat	600	5.0
Three or Four-Stage Topcoat	620	5.2
Specialty Coating	840	7.0

(d) <u>Labeling Requirements</u>. No person subject to 310 CMR 7.18(28)(a) shall manufacture for sale in Massachusetts, sell, offer for sale, or apply automotive refinishing coatings manufactured after August 1, 1995 in Massachusetts unless:

1. the containers for all subject automotive refinishing coatings display the month and year on which the contents were manufactured, or a batch number or code which indicates whether the contents were manufactured after August 1, 1995. The manufacturer shall supply an explanation of each code to the Department by August 1, 1995, and thereafter, 30 days before the use of any new code; and

2. the manufacturer provides written instructions for the preparation of all subject automotive refinishing coatings on containers, packaging, or in accompanying literature which includes, but is not limited to, data sheets and wall charts.

3. the facility owner or operator maintains, in the automotive refinishing facility, the manufacturer's written instructions for the preparation of all subject coatings.

(e) <u>Alternative Control Requirements</u>. The emission limitations in 310 CMR 7.18(28)(c) shall not apply to any person who owns, leases, operates, or controls an automotive refinishing facility who installs and operates an emissions control system which has received written approval after submitting an emission control plan pursuant to 310 CMR 7.18(20). No such approval shall be issued unless the VOC emissions from coating use at such facility are determined to be less than or equal to those limits specified in Table 7.18(28)(c).

(f) <u>Good Housekeeping Requirements</u>. In order to minimize solvent evaporation, any person subject to 310 CMR 7.18(28)(a), who owns, leases, operates, or controls an automotive refinishing facility shall:

 use a surface preparation product containing less than or equal to 1.67 pounds of VOC per gallon of product as applied, including water to clean non-plastic surfaces; and,
 use a surface preparation product containing less than or equal to 6.5 pounds of VOC per gallon as applied, to clean plastic surfaces, and,

3. ensure that rags used during surface preparation or other solvent cleaning operations, fresh and spent solvent, coatings, and sludge are stored in tightly closed containers and are disposed of or recycled properly.

(g) <u>Equipment Requirements</u>. Any person who is subject to 310 CMR 7.18(28)(a), who owns, leases, operates, or controls an automotive refinishing facility shall comply with the following requirements in addition to 310 CMR 7.18(28)(c) through (f).

1. Coatings must be applied using one of the following methods:

a. High Volume Low Pressure (HVLP) spray equipment, operated and maintained in accordance with the manufacturer's recommendations;

b. Electrostatic application equipment, operated and maintained in accordance with the manufacturer's recommendations;

c. Any other coating application method approved by the Department in writing.

2. Spray guns must be cleaned in a device that:

a. minimizes solvent evaporation during the cleaning, rinsing, and draining operations;

b. recirculates solvent during the cleaning operation so that the solvent is reused; and,

c. collects spent solvent so that it is available for proper disposal or recycling.

(h) <u>Training Requirements</u>. Any person who owns, leases, operates, or controls an automotive refinishing facility shall ensure that, on and after November 1, 1995, all spray equipment operators have received training and instruction in the proper operation and maintenance of the spray equipment and spray equipment cleaning device.

(i) <u>Prohibition of Specification</u>. A person shall not solicit or require for use or specify the application of a coating on a vehicle, or part thereof, if such use or application results in a violation of the provisions of 310 CMR 7.00. The prohibition of 310 CMR 7.18 shall apply to all written or oral contracts under the terms of which any coating which is subject to the provisions of 310 CMR 7.00 is to be applied to any automotive or part thereof within Massachusetts.

(j) <u>Continuous Compliance</u>. Any person subject to 310 CMR 7.18(28)(a) shall maintain continuous compliance at all times with applicable sections. Compliance averaging times will be met in accordance with the requirements of 310 CMR 7.18(2)(a).

(k) <u>Compliance Certification Requirements</u>. Each manufacturer of automotive refinishing coatings subject to 310 CMR 7.18(28)(a) shall submit to the Department by August 1, 1995, and biennially thereafter, or when requested in writing by the Department, a document which certifies that each coating is in compliance with 310 CMR 7.00. The document shall include, at a minimum for each surface preparation product or coating to be manufactured after August 1, 1995, the following:

1. Signature of the responsible official and the name and title of the designated contact person;

2. Maximum VOC content, including water, of surface preparation products;

3. Coating brand name and category;

4. Coating mixing instructions as stated on the container or in literature supplied with the coating;

5. Maximum VOC content of the coating after mixing according to manufacturer's instructions;

6. Any other requirements specified by the Department.

(1) <u>Testing Requirements</u>. Any person subject to 310 CMR 7.18(28)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(28). Testing shall be conducted in accordance with EPA Method 24 and/or Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA.

(m) <u>Good Neighbor Requirements</u>. Any person subject to 310 CMR 7.18(28)(a) who owns, leases, operates, or controls an automotive refinishing facility shall prevent emissions of particulates or odors to the ambient air which create a nuisance or condition of air pollution.
(n) The provisions of 310 CMR 7.18(28)(m) are subject to the enforcement provisions specified in 310 CMR 7.52.

(o) <u>Exemptions</u>.

1. The requirements of 310 CMR 7.18(28)(b) do not apply to:

a. stencil coatings.

b. b. coatings that are sold in nonrefillable aerosol containers.

2. The requirements of 310 CMR 7.18(28)(g) do not apply to touch-up coatings.

(p) <u>Recordkeeping Requirements</u>. Any person subject to 310 CMR 7.18(28)(a) must maintain purchase records of coatings and surface preparation products on a monthly basis. The purchase records must be summarized and include:

1. each coating category, coating or coating component, and surface preparation product as identified on the container,

2. the quantity of each coating, and surface preparation product, and

3. the VOC content (pounds per gallon) of each coating, and surface preparation product, after mixing according to the manufacturer's instructions.

Records kept to demonstrate compliance must be kept on site for three years, and must be made available to representatives of the Department upon request.

(29) Bakeries.

(a) <u>Applicability</u>: 310 CMR 7.18(29) applies in its entirety to any person who owns, leases, operates or controls any bakery which has the potential to emit, before the application of air pollution control equipment, equal to or greater than 50 tons per year of volatile organic compounds.

(b) <u>Reasonably Available Control Technology Requirements</u>: On or after May 31, 1995, unless exempted under 310 CMR 7.18(29)(c) or (d), no person subject to 310 CMR 7.18(29)(a) shall cause, suffer, allow or permit emissions from any bakery oven unless in compliance with the requirements set forth in 7.18(29)(e).

(c) <u>Exemption for Small Bakeries</u>: The requirements of 310 CMR 7.18(29) do not apply to:
 1. any person who is able to demonstrate to the Department that, since January 1, 1990, the bakery has not emitted, before the application of air pollution control equipment, greater than or equal to 50 tons per year of volatile organic compounds; and

2. provided the person obtains a permit restriction from the Department under 310 CMR 7.02(9) which restricts potential emissions to below 50 tons per year.

(d) <u>Exemption for Small Ovens</u>: Any individual baking oven (at an applicable facility) which has not emitted since January 1, 1990, before application of air pollution control equipment, greater than or equal to 25 tons of VOC in any calendar year, is exempt from the requirements of 310 CMR 7.18(29)(e) and (f).

(e) <u>RACT Requirement</u>: Unless exempted under 310 CMR 7.18(29)(c), no person subject to 310 CMR 7.18(29) shall operate a baking oven unless VOC emissions from such oven are reduced 81% by weight.

(f) <u>Plan Submittal Requirement</u>: Any person who owns, leases, operates or controls a bakery subject to the requirements of 310 CMR 7.18(29)(e) must submit an emission control plan and have the plan approved by the Department in accordance with the schedule and requirements of 310 CMR 7.18(20), except that bakeries subject to 310 CMR 7.18(29)(e) at the time of promulgation shall submit an emission control plan by April 15, 1995.

(g) <u>Recordkeeping Requirements</u>: Any person operating a bakery applicable to 310 CMR 7.18(29) shall maintain records of operations necessary to demonstrate compliance. Such records shall be retained in the owner's or operator's files for a period of not less than five years and should include, but are not limited to:

1. Monthly records to determine emissions from each oven. Using the formula in EPA's "Alternative Control Technology Document for Bakery Oven Emissions", dated December 1992, or other formula approved by the Department and EPA, such records would include:

- a. formula number;
- b. initial bakers yeast as percent of flour;
- c. total yeast action time;
- d. yeast spike as percent of flour;
- e. spike time;
- f. ethanol emission factor (lbs/ton);
- g. production (tons of bread baked);
- h. total ethanol emissions (tons).

2. Hourly (or continuous) records of control equipment operating parameters such as temperature, pressure drop or other applicable parameters to assure continuous compliance.

(h) <u>Testing Requirements</u>: Any person who owns, leases, operates or controls a bakery subject to 310 CMR 7.18(29) shall, upon request of the Department, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(29). Testing shall be conducted in accordance with EPA Methods 25, 25A, and/or 18 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA.

(30) Adhesives and Sealants.

(a) <u>Applicability</u>.

1. Except as provided in 310 CMR 7.18(30)(a)2. through 5., 310 CMR 7.18(30) applies to:

a. any person who, on or after January 1, 2015, manufactures any adhesive, sealant, adhesive primer, or sealant primer for use in Massachusetts;

b. any person who, on or after September 1, 2015, sells, supplies, or offers for sale any adhesive, sealant, adhesive primer, or sealant primer for use in Massachusetts; and

c. any person who, on or after May 1, 2016, uses, applies, or solicits the use or application of any adhesive, sealant, adhesive primer, or sealant primer in Massachusetts.

2. 310 CMR 7.18(30) shall not apply to the use or application of any adhesive, sealant, adhesive primer, or sealant primer by the homeowner(s), renter(s), or other resident(s) at a private residence for personal use and not for a fee, compensation, or other financial gain.

3. 310 CMR 7.18(30) shall not apply to the manufacture, sale, supplying, or offering for sale of an adhesive, sealant, adhesive primer, or sealant primer provided that:

a. the adhesive, sealant, adhesive primer, or sealant primer is intended exclusively for shipment and use or application outside of Massachusetts;

b. the manufacturer or distributor keeps records demonstrating that the adhesive, sealant, adhesive primer, or sealant primer is intended exclusively for shipment and use or application outside of Massachusetts; and

c. the manufacturer or distributor has taken reasonable precautions to assure that the adhesive, sealant, adhesive primer, or sealant primer is not sold, supplied, or offered for sale for use or application within Massachusetts.

4. 310 CMR 7.18(30) shall not apply to the manufacture, sale, supplying, offering for sale, or the use or application of the following:

a. adhesives, sealants, adhesive primers, and sealant primers that are subject to 310 CMR 7.25(12), Consumer Products;

b. adhesives and sealants that contain less than 20 grams of VOC per liter of adhesive, or sealant, less water and less exempt compounds, as applied;

c. adhesives used in tire repair operations, provided the label of the adhesive states: "For Tire Repair Only"; and

d. adhesives and adhesive primers, used in printing operations that are subject to 310 CMR 7.03(15), Non-heatset Offset Lithographic Printing; 310 CMR 7.03(19), Flexographic, Gravure, Letterpress and Screen Printing; 310 CMR 7.18(12), Packaging Rotogravure and Packaging Flexographic Printing; 310 CMR 7.18(25), Offset Lithographic Printing and Letterpress Printing; and 310 CMR 7.26(20) through (29), Environmental Results Program: Lithographic, Gravure, Letterpress, Flexographic and Screen Printing.

5. 310 CMR 7.18(30) shall not apply to the manufacture, sale, supplying, or offering for sale of the following:

a. cyanoacrylate adhesives;

b. adhesives, sealants, adhesive primers, or sealant primers that are used in assembly, repair and manufacture of aerospace or undersea-based weapon systems components;

c. adhesives, sealants, adhesive primers, or sealant primers that are used in manufacture of medical equipment;

d. adhesives, sealants, adhesive primers, or sealant primers that are used in plaque laminating operations in which adhesives are used to bond clear, polyester acetate laminate to wood with lamination equipment installed prior to July 1, 1992; and

e. adhesives, sealants, adhesive primers, or sealant primers that are supplied or sold by the manufacturer or distributor in containers with a net volume of 16 fluid ounces or less, or a net weight of one pound or less. Plastic cement welding adhesives are excluded from this exemption.

(b) <u>Definitions</u>. Terms used in 310 CMR 7.18(30) are defined at 310 CMR 7.00: *Definitions* or in 310 CMR 7.18(30)(b). Where a term is defined in both 310 CMR 7.00: *Definitions* and in 310 CMR 7.18(30)(b), the definition in 310 CMR 7.18(30)(b) shall apply.

<u>ACRYLONITRILE-BUTADIENE-STYRENE OR ABS WELDING ADHESIVE</u> means any adhesive intended by the manufacturer to weld acrylonitrile-butadiene-styrene pipe, which is made by reacting monomers of acrylonitrile, butadiene and styrene.

<u>ADHESIVE</u> means any chemical substance that is applied for the purpose of bonding two surfaces together other than by mechanical means.

<u>ADHESIVE PRIMER</u> means any product intended by the manufacturer for application to a substrate, prior to the application of an adhesive, to enhance the bonding process.

<u>AEROSOL ADHESIVE</u> means an adhesive packaged as an aerosol product in which the spray mechanism is permanently housed in a non-refillable can designed for handheld application without the need for ancillary hoses or spray equipment.

<u>AEROSPACE COMPONENT</u> means the fabricated part, assembly of parts or completed unit of any aircraft, helicopter, missile, or space vehicle, including passenger safety equipment.

<u>ARCHITECTURAL SEALANT</u> OR <u>PRIMER</u> means any sealant or sealant primer intended by the manufacturer to be applied to stationary structures, including mobile homes and their appurtenances. Appurtenances to a stationary structure include, but are not limited to: hand railings, cabinets, bathroom and kitchen fixtures, fences, rain gutters and downspouts, and windows.

<u>AUTOMOTIVE GLASS ADHESIVE PRIMER</u> means an adhesive primer labeled by the manufacturer to be applied to automotive glass prior to installation of the glass using an adhesive/sealant.

<u>CARB</u> means the California Air Resources Board.

<u>CERAMIC TILE INSTALLATION ADHESIVE</u> means any adhesive intended by the manufacturer for use in the installation of ceramic tiles.

<u>CHLORINATED POLYVINYL CHLORIDE PLASTIC</u> or <u>CPVC PLASTIC</u> means a polymer of the vinyl chloride monomer that has undergone a post-polymerization chlorination process to increase the chlorine content of the PVC polymer beyond its base chlorine content of 57%. CPVC plastic is normally identified with a CPVC marking.

<u>CHLORINATED POLYVINYL CHLORIDE WELDING ADHESIVE</u> or <u>CPVC WELDING</u> <u>ADHESIVE</u> means an adhesive labeled for welding of chlorinated polyvinyl chloride plastic.

<u>CLEANUP SOLVENT</u> means a VOC-containing material used to remove a loosely held uncured (*i.e.*, not dry to the touch) adhesive or sealant from a substrate, or a VOC-containing material used to clean equipment used in applying a material.

<u>COMPUTER DISKETTE JACKET MANUFACTURING ADHESIVE</u> means any adhesive intended by the manufacturer to glue the fold-over flaps to the body of a vinyl computer diskette jacket.

CONTACT ADHESIVE means an adhesive that:

- (a) is designed for application to two surfaces to be bonded together; and
- (b) is allowed to dry before the two surfaces are placed in contact with each other; and

(c) forms an immediate bond that is impossible, or difficult, to reposition after both adhesive-coated surfaces are placed in contact with each other; and

(d) does not need sustained pressure or clamping of surfaces after the adhesive-coated surfaces have been brought together using sufficient momentary pressure to establish full contact between both surfaces. Contact adhesive does not include rubber cements that are primarily intended for use on paper substrates. Contact adhesive also does not include vulcanizing fluids that are designed and labeled for tire repair only.

<u>CONTROL TECHNIQUES GUIDELINES</u> or <u>CTG</u> means the Control Techniques Guidelines issued by EPA for Miscellaneous Industrial Adhesives, EPA-453/R-08-005, and published in the Federal Register on October 7, 2008.

<u>COVE BASE</u> means a flooring trim unit, generally made of vinyl or rubber, having a concave radius on one edge and a convex radius on the opposite edge that is used in forming a junction between the bottom wall course and the floor or to form an inside corner.

<u>COVE BASE INSTALLATION ADHESIVE</u> means any adhesive intended by the manufacturer to be used for the installation of cove base or wall base on a wall or vertical surface at floor level.

<u>CTG-AFFECTED FACILITY</u> means a facility in which total actual uncontrolled VOC emissions from all Miscellaneous Industrial Adhesive Application Processes, including related cleaning activities, are equal to or greater than 6.8 kg/day (15 lb/day) or an equivalent level such as 3 tons per 12-month rolling period.

<u>CYANOACRYLATE ADHESIVE</u> means any adhesive with a cyanoacrylate content of at least 95% by weight.

<u>DISTRIBUTOR</u> means any person to whom an adhesive, adhesive primer, sealants, or sealant primer is sold or supplied for the purpose of resale or distribution in commerce, except that manufacturers, retailers, and consumers are not distributors.

<u>DRY WALL INSTALLATION</u> means the installation of gypsum dry wall to stude or solid surfaces using an adhesive formulated for that purpose.

<u>EXEMPT COMPOUND</u> means an organic compound that is excluded from the definition of volatile organic compound in 310 CMR 7.00.

FIBERGLASS means a material consisting of extremely fine glass fibers.

FLEXIBLE VINYL means non-rigid polyvinyl chloride plastic.

<u>INDOOR FLOOR COVERING INSTALLATION ADHESIVE</u> means any adhesive intended by the manufacturer for use in the installation of wood flooring, carpet, resilient tile, vinyl tile, vinyl backed carpet, resilient sheet and roll, or artificial grass. Adhesives used to install ceramic tile and perimeter bonded sheet flooring with vinyl backing onto a non-porous substrate, such as Flexible Vinyl, are excluded from this category.

LAMINATE means a product made by bonding together two or more layers of material.

<u>LOW-SOLIDS ADHESIVE, SEALANT OR PRIMER</u> means any product that contains 120 grams or less of solids per liter of material.

<u>MANUFACTURER</u> means any person who manufactures, processes, imports, assembles, produces, packages, repackages, or re-labels a product.

<u>MARINE DECK SEALANT</u> or <u>MARINE DECK SEALANT PRIMER</u> means any sealant or sealant primer labeled for application to wooden marine decks.

<u>MEDICAL EQUIPMENT MANUFACTURING</u> means the manufacture of medical devices, such as, but not limited to, catheters, heart valves, blood cardioplegia machines, tracheostomy tubes, blood oxygenators, and cardiatory reservoirs.

<u>METAL TO URETHANE/RUBBER MOLDING</u> OR <u>CASTING ADHESIVE</u> means any adhesive intended by the manufacturer to bond metal to high density or elastomeric urethane or molded rubber materials, in heated molding or casting processes.

<u>MISCELLANEOUS INDUSTRIAL ADHESIVE APPLICATION PROCESS</u> means a process used at an industrial manufacturing or repair facility that is subject to the Control Technique Guidelines (CTG) as defined in 310 CMR 7.18(30).

<u>MULTIPURPOSE CONSTRUCTION ADHESIVE</u> means any adhesive intended by the manufacturer for use in the installation or repair of various construction materials, including but not limited to drywall, subfloor, panel, fiberglass reinforced plastic (FRP), ceiling tile and acoustical tile.

<u>NONMEMBRANE ROOF INSTALLATION/REPAIR ADHESIVE</u> means any adhesive intended by the manufacturer for use in the installation or repair of non-membrane roofs including, but not limited to, plastic or asphalt roof cement, asphalt roof coating and cold application cement. Nonmembrane roof installation/repair adhesive does not include adhesive intended by the manufacturer for use in the installation or repair of prefabricated single-ply flexible roofing membrane.

<u>OUTDOOR FLOOR COVERING INSTALLATION ADHESIVE</u> means any adhesive intended by the manufacturer for use in the installation of floor covering that is not in an enclosure and that is exposed to ambient weather conditions during normal use.

<u>PANEL INSTALLATION</u> means the installation of plywood, pre-decorated hardboard (or tileboard), fiberglass reinforced plastic, and similar pre-decorated or non-decorated panels to studs or solid surfaces using an adhesive formulated for that purpose.

<u>PERIMETER BONDED SHEET FLOORING INSTALLATION</u> means the installation of sheet flooring with vinyl backing onto a nonporous substrate using an adhesive designed to be applied only to a strip of up to four inches wide around the perimeter of the sheet flooring.

<u>PLASTIC</u> means any synthetic material chemically formed by the polymerization of organic (carbon-based) substances. Plastics are usually compounded with modifiers, extenders, and/or reinforcers and are capable of being molded, extruded, cast into various shapes and films or drawn into filaments.

<u>PLASTIC CEMENT WELDING ADHESIVE</u> means any adhesive intended by the manufacturer for use to dissolve the surface of plastic to form a bond between mating surfaces. Plastic cement welding adhesive does not include ABS welding, PVC welding, or CPVC welding adhesives.

<u>PLASTIC CEMENT WELDING ADHESIVE PRIMER</u> means any primer intended by the manufacturer for use to prepare plastic substrates prior to bonding or welding.

PLASTIC FOAM means foam constructed of plastics.

<u>PLASTICIZER</u> means a material, such as a high boiling point organic solvent, that is incorporated into a vinyl to increase its flexibility, workability, or distensibility, as determined by the applicable ASTM International test method or any other method approved by the Department and EPA.

<u>POLYVINYL CHLORIDE PLASTIC</u> or <u>PVC PLASTIC</u> means a polymer of the chlorinated vinyl monomer, which contains at least 57% chlorine.

<u>POLYVINYL CHLORIDE WELDING ADHESIVE</u> or <u>PVC WELDING ADHESIVE</u> means any adhesive intended by the manufacturer for use in the welding of PVC plastic pipe.

<u>POROUS MATERIAL</u> means a substance that has tiny openings, often microscopic, in which fluids may be absorbed or discharged, including, but not limited to, wood, paper and corrugated paperboard. For the purposes of 310 CMR 7.18(30), porous material does not include wood.

<u>REACTIVE ADHESIVE</u> means adhesive systems composed, in part, of volatile monomers that react during the adhesive curing reaction, and, as a result, do not evolve from the film during use. These volatile components instead become integral parts of the adhesive through chemical reaction. At least 70% of the liquid components of the system, excluding water, react during the process.

<u>REACTIVE DILUENT</u> means a liquid that is a VOC during application and one in that, through chemical and/or physical reactions, such as polymerization, 20% or more of the VOC becomes an integral part of a finished material.

<u>REINFORCED PLASTIC COMPOSITE</u> means a composite material consisting of plastic reinforced with fibers.

<u>ROADWAY SEALANT</u> means any sealant intended by the manufacturer for application to streets, highways and other similar surfaces, including, but not limited to, curbs, berms, driveways, and parking lots.

<u>RUBBER</u> means any natural or manmade rubber substrate, including, but not limited to, styrene-butadiene rubber, polychloroprene (neoprene), butyl rubber, nitrile rubber, chlorosulfonated polyethylene, and ethylene propylene diene terpolymer.

SCAQMD means the South Coast Air Quality Management District of the State of California.

<u>SEALANT</u> means any material with adhesive properties that is formulated primarily to fill, seal, waterproof or weatherproof gaps or joints between two surfaces. Sealants include caulks.

<u>SEALANT PRIMER</u> means any product intended by the manufacturer for application to a substrate, prior to the application of a sealant, to enhance the bonding process.

<u>SHEET RUBBER LINING INSTALLATION</u> means the process of applying sheet rubber liners by hand to metal or plastic substrates to protect the underlying substrate from corrosion or abrasion. These operations also include laminating sheet rubber to fabric by hand.

<u>SINGLE-PLY ROOF MEMBRANE</u> means a prefabricated single sheet of compounded synthetic material such as ethylene propylene diene monomer, polyvinyl chloride, thermal polyolefin, or ketone ethylene ester that is applied in a single layer to a building roof.

<u>SINGLE-PLY ROOF MEMBRANE ADHESIVE PRIMER</u> means any primer intended by the manufacturer for use to clean and promote adhesion of the single-ply roof membrane seams or splices prior to bonding.

<u>SINGLE-PLY ROOF MEMBRANE INSTALLATION AND REPAIR ADHESIVE</u> means any adhesive intended and labeled by the manufacturer for use in the installation or repair of single-ply roof membrane. Installation includes, at a minimum, attaching the edge of the membrane to the edge of the roof and applying flashings to vents, pipes and ducts that protrude through the membrane. Repair includes, but is not limited to, gluing the edges of torn membrane together, attaching a patch over a hole and reapplying flashings to vents, pipes, or ducts installed through the membrane.

<u>SINGLE-PLY ROOF MEMBRANE SEALANT</u> means any sealant intended by the manufacturer for application to single-ply roof membrane.

<u>SOLVENT</u> means organic compounds that are used as diluents, thinners, dissolvers, viscosity reducers, cleaning agents or other related uses.

<u>STRUCTURAL GLAZING ADHESIVE</u> means any adhesive intended by the manufacturer to apply glass, ceramic, metal, stone, or composite panels to exterior building frames.

<u>SUBFLOOR INSTALLATION</u> means the installation of subflooring material over floor joists, including the construction of any load bearing joists. Subflooring is covered by a finish surface material.

<u>SURFACE PREPARATION SOLVENT</u> means any VOC containing material used to remove dirt, oil and other contaminants from a substrate prior to the application of a primer, adhesive, or sealant.

<u>THIN METAL LAMINATING ADHESIVE</u> means any adhesive intended by the manufacturer for use in bonding multiple layers of metal to metal or metal to Plastic in the production of electronic or magnetic components in which the thickness of the bond line(s) is less than 0.25 mils.

<u>TIRE REPAIR</u> means a process that includes expanding a hole, tear, fissure or blemish in a tire casing by grinding or gouging, applying adhesive, and filling the hole or crevice with rubber.

<u>TIRE RETREAD ADHESIVE</u> means any adhesive intended by the manufacturer for application to the back of pre-cure tread rubber and to the casing and cushion rubber. Tire retread adhesive may also be used to seal buffed tire casings to prevent oxidation while the tire is being prepared for a new tread.

<u>TRAFFIC MARKING TAPE</u> means pre-formed reflective film intended by the manufacturer for application to streets, highways and other traffic-related surfaces, including, but not limited to curbs, berms, driveways and parking lots.

<u>TRAFFIC MARKING TAPE ADHESIVE PRIMER</u> means any primer intended by the manufacturer for application to surfaces prior to installation of traffic marking tape.

<u>UNDERSEA-BASED WEAPONS SYSTEMS COMPONENTS</u> means parts or completed units of any portion of a missile launching system used on undersea ships.

<u>WATERPROOF RESORCINOL GLUE</u> means a two-part resorcinol-resin-based adhesive designed for applications where the bond line must be resistant to conditions of continuous immersion in fresh or salt water.

(c) <u>VOC Emission Requirements</u>.

1. Except as provided in 310 CMR 7.18(30)(a) and (d), on and after January 1, 2015, no person shall manufacture for sale in Massachusetts any adhesive, sealant, adhesive primer, or sealant primer that contains VOCs in excess of the applicable VOC content limits specified in 310 CMR 7.18(30)(c): *Table 1* and *Table 2*. The VOC content limits specified in 310 CMR 7.18(30)(c): *Table 1* and *Table 2* apply to adhesives, sealants, adhesive primers, and sealant primers as applied.

2. Except as provided in 310 CMR 7.18(30)(a) and (d), on and after September 1, 2015, no person shall sell, supply, or offer for sale in Massachusetts any adhesive, sealant, adhesive primer, or sealant primer that contains VOCs in excess of the applicable VOC content limits specified in 310 CMR 7.18(30)(c): *Table 1* and *Table 2*. The VOC content limits specified in 310 CMR 7.18(30)(c): *Table 1* and *Table 2* apply to adhesives, sealants, adhesive primers, and sealant primers as applied.

3. Except as provided in 310 CMR 7.18(30)(a), (c)7., and (d), on and after May 1, 2016, no person shall use, apply, or solicit the use or application of any adhesive, sealant, adhesive primer, or sealant primer in Massachusetts that contains VOCs in excess of the applicable VOC content limits specified in 310 CMR 7.18(30)(c): *Table 1* and *Table 2*. The VOC content limits specified in 310 CMR 7.18(30)(c): *Table 1* and *Table 2* apply to adhesives, sealants, adhesive primers, and sealant primers as applied.

4. The VOC content limits in 310 CMR 7.18(30)(c): *Table 1* and *Table 2* shall apply as follows:

a. If an adhesive is used that is subject to a specific VOC content limit for such adhesive in 310 CMR 7.18(30)(c): *Table 1*, such specific limit shall apply rather than an adhesive-to-substrate limit specified in 310 CMR 7.18(30)(c): *Table 2*.

b. If an adhesive is used to bond dissimilar substrates together, the VOC limit for the applicable substrate category in 310 CMR 7.18(30)(c): *Table 2* with the highest VOC content shall be the limit for such use.

5. No person subject to 310 CMR 7.18(30) shall:

a. use any surface preparation solvent that contains a VOC content equal to or greater than 70 grams per liter of material except as provided in 310 CMR 7.18(30)(c)5.b. for single-ply roofing;

b. use any surface preparation solvent with a VOC composite vapor pressure, excluding water and exempt compounds, equal to or greater than 45 millimeter mercury (mm Hg) at 20°C for application of single-ply roofing;

c. use any material with a VOC composite vapor pressure equal to or greater than 45 mm Hg at 20°C for the removal of adhesives, sealants, adhesive primers, or sealant primers from any surface except as provided in 310 CMR 7.18(30)(c)5.d.;

d. remove any adhesive, sealant, adhesive primer, or sealant primer from the parts of spray gun equipment unless the operation is performed:

i. in an enclosed cleaning system, or equivalent cleaning system, which minimizes solvent evaporation during the cleaning, rinsing, and draining operations; and, collects the spent solvent in a container with a tight-fitting cover so that it is available for reuse, recycling, or proper disposal; or

ii. using a solvent with a VOC content less than or equal to 70 grams of VOC per liter of material; or

iii. when soaking parts containing dried adhesive, in a closed container that remains closed except when adding or removing parts, and using a solvent with a composite vapor pressure that does not exceed 9.5 mm Hg at 20°C excluding water and exempt compounds.

6. At a CTG-affected facility, any person subject to the requirements in 310 CMR 7.18(30)(c): *Table 1* and *Table 2* shall utilize one of the following application methods in applying an adhesive, sealant, adhesive primer, or sealant primer:

- a. electrostatic spray;
- b. HVLP spray;
- c. flow coat;

d. roll coat or hand application, including non-spray application methods similar to hand or mechanically powered caulking gun, brush, or direct hand application;

- e. dip coat (including electrodeposition);
- f. airless spray;
- g. air-assisted airless spray;

h. any adhesive application method capable of achieving a transfer efficiency equivalent to or better than that achieved by HVLP spraying.

7. Any person using or applying an adhesive, sealant, adhesive primer, or sealant primer may comply with 310 CMR 7.18(30)(c)3. and 5. by using add-on air pollution control equipment provided that the following requirements are met:

a. the VOC emissions from the use of all adhesives, sealants, adhesive primers, or sealant primers that exceed the applicable limits in 310 CMR 7.18(30)(c): *Table 1* and *Table 2*, and all surface preparation solvents and cleanup solvents are reduced by an overall capture and control efficiency of at least 85%, by weight;

b. compliance with the requirements for emissions capture and control equipment is demonstrated according to 310 CMR 7.18(2)(e);

c. operation records sufficient to demonstrate compliance with the requirements of 310 CMR 7.18(30)(c)7. are maintained as required by 310 CMR 7.18(30)(e); and

d. an emission control plan (ECP), pursuant to 310 CMR 7.18(20), is submitted to the Department for approval.

8. Any person using or applying adhesives, sealants, adhesive primers, and sealant primers, shall comply with the following work practices:

a. store all VOC-containing adhesives, sealants, adhesive primers, sealant primers, process-related waste materials, and VOC-containing materials used for surface preparation, cleaning, and rework in closed containers;

b. ensure that mixing and storage containers used for VOC-containing adhesives, sealants, adhesive primers, sealant primers, process-related waste materials, and VOC-containing materials used for surface preparation, cleaning and rework are kept closed at all times except when depositing or removing these materials;

c. inimize spills of VOC-containing adhesives, sealants, adhesive primers, sealant primers, process-related waste materials, and VOC-containing materials used for surface preparation, cleaning, and rework;

d. convey VOC-containing adhesives, sealants, adhesive primers, sealant primers, process-related waste materials, and VOC-containing materials used for surface preparation, cleaning, and rework from one location to another in closed containers or pipes;

e. minimize VOC emissions from cleaning of application, storage, mixing, and conveying equipment by ensuring that:

i. equipment cleaning is performed without atomizing the cleanup solvent; and,

ii. all spent solvent is captured in closed containers; and

f. store and dispose of all absorbent materials, such as cloth or paper, that are contaminated with VOC-containing adhesives, sealants, adhesive primers, sealant primers, process-related waste materials, or VOC-containing materials used for surface preparation, cleaning, and rework in non-absorbent containers that shall be kept closed except when placing materials in or removing materials from the container.

9. No person shall solicit, require the use of, or specify the use or application of any adhesive, sealant, adhesive primer, or sealant primer if such use or application results in a violation of any provision of 310 CMR 7.18(30)(c). The prohibition of 310 CMR 7.18(30)(c)9. shall apply to all contracts under which any adhesive, sealant, adhesive primer, or sealant primer is to be used at any location in Massachusetts.

310 CMR 7.18(30)(c): Table 1 VOC Content Limits for Adhesives, Sealants, Adhesive Primers, and Sealant Primers

Adhesive, Sealant, Adhesive Primer or Sealant Primer Category	VOC Content Limit as Applied (grams/liter*)
ADHESIVES	
ABS Welding	400
Ceramic Tile Installation	130
Computer Diskette Jacket Manufacturing	850
Contact	250
Cove Base Installation	150
CPVC Welding	490
Indoor Floor Covering Installation	150
Metal to Urethane/Rubber Molding or Casting	850
Multipurpose Construction	200
Nonmembrane Roof Installation/Repair	300
Outdoor Floor Covering Installation	250
Perimeter Bonded Sheet Vinyl Flooring Installation	660
Plastic Cement Welding (Non ABS)	500
PVC Welding	510
Sheet Rubber Lining Installation	850
Single-ply Roof Membrane Installation/Repair	250
Structural Glazing	100
Thin Metal Laminating	780
Tire Retread	100
Waterproof Resorcinol Glue	170
SEALANTS	
Architectural	250
Marine Deck	760
Nonmembrane Roof Installation/Repair	300
Roadway	250
Single-ply Roof Membrane	450
Other	420
ADHESIVE PRIMERS	
Automotive Glass	700
Plastic Cement Welding	
Single-ply Roof Membrane	650
Traffic Marking Tape	250
Other	150
	250
SEALANT PRIMERS	
Non-porous Architectural	250
Porous Architectural	775
Marine Deck	760
Other	750

* The VOC content is determined as the weight of volatile compounds, less water and exempt compounds, as specified in 310 CMR 7.18(30)(f): *Compliance Procedures and Test Methods*.

Substrate Category	VOC Content Limit as Applied (grams/liter*)
Flexible Vinyl	250
Fiberglass	200
Metal	30
Porous Material	120
Reinforced Plastic Composite	200
Rubber	250
Wood	30
Other Substrates	250

310 CMR 7.18(30)(c): Table 2 **VOC Content Limit for Adhesives Applied to Particular Substrates**

* The VOC content is determined as the weight of volatile compounds, less water and exempt compounds, as specified in 310 CMR 7.18(30)(f): *Compliance Procedures and Test Methods*.

(d) Exemptions.

310 CMR 7.18(30)(c)1. and 2. shall not apply to the manufacture, sale, supplying, or offering for sale of an adhesive, sealant, adhesive primer, or sealant primer provided that:

 a. the adhesive, sealant, adhesive primer, or sealant primer is for use in a facility that utilizes add-on air pollution control equipment to achieve compliance pursuant to 310 CMR 7.18(30)(c)7.; and

b. the manufacturer, distributor, seller, supplier and person offering for sale keep records demonstrating that the adhesive, sealant, adhesive primer, or sealant primer is intended for use in a facility that utilizes add-on air pollution control equipment to achieve compliance pursuant to 310 CMR 7.18(30)(c)7.

2. 310 CMR 7.18(30) shall not apply to the manufacture, sale, supplying, offering for sale, or use of adhesives, sealants, adhesive primers, and sealant primers being tested or evaluated in any research and development, quality assurance, or analytical laboratory, except that the requirements of 310 CMR 7.18(30)(c)8. and (e)2. shall apply.

3. 310 CMR 7.18(30) shall not apply to the use or application of:

a. cyanoacrylate adhesives, except that the requirements of 310 CMR 7.18(30)(c)8. shall apply;

b. adhesives, sealants, adhesive primers, and sealant primers that are sold or supplied by the manufacturer or distributor in containers with a net volume of 16 fluid ounces or less, or a net weight of one pound or less, except that the requirements of 310 CMR 7.18(30)(c)8. shall apply. This exemption shall not apply to plastic cement welding adhesives.

c. adhesives, sealants, adhesive primers, and sealant primers that are used in the assembly, repair, and manufacture of aerospace or undersea-based weapon systems components, except that the requirements of 310 CMR 7.18(30)(c)8. shall apply;

d. adhesives, sealants, adhesive primers, and sealant primers that are used in the manufacture of medical equipment, except that the requirements of 310 CMR 7.18(30)(c)8. shall apply; and

e. adhesives, sealants, adhesive primers, and sealant primers in plaque laminating operations in which adhesives are used to bond clear, polyester acetate laminate to wood with lamination equipment installed prior to July 1, 1992, except that the requirements of 310 CMR 7.18(30)(c)8. shall apply.

4. 310 CMR 7.18(30)(c)3. and 5. shall not apply to the use or application of adhesives, sealants, adhesive primers, and sealant primers at a facility in which the total facility-wide VOC emissions from all adhesives, sealants, adhesive primers, and sealant primers used are less than 200 pounds per calendar year, or an equivalent volume.

Any person claiming this exemption shall maintain sufficient monthly operational records in accordance with 310 CMR 7.18(30)(e) to demonstrate compliance with this exemption.

5. 310 CMR 7.18(30)(c)3. and 5. shall not apply to the use or application of adhesives, sealants, adhesive primers, and sealant primers at a facility in which the facility-wide total volume of adhesives, sealants, adhesive primers, sealant primers, cleanup solvents, and surface preparation solvents does not exceed 55 gallons per calendar year. Any person claiming this exemption shall maintain sufficient monthly operational records in accordance with 310 CMR 7.18(30)(e) to demonstrate compliance with this exemption.
(e) Recordkeeping Requirements.

1. Each person subject to 310 CMR 7.18(30) shall maintain records demonstrating compliance with 310 CMR 7.18(30), including, but not limited to, the following information:

a. for the manufacturer of any adhesive, sealant, adhesive primer, or sealant primer:
i. for each product, the product name, product category according to 310 CMR
7.18(30)(c): *Table 1*, and *Table 2*., the VOC content of each product as supplied, and the type of product application;

ii. the volume of each product sold in Massachusetts in containers with a net volume greater than 16 fluid ounces or a net weight of more than one pound;

iii. all records required pursuant to 310 CMR 7.18(30)(d)1.b.; and

iv. all records pertaining to compliance testing pursuant to 310 CMR 7.18(30)(h);

b. for any person who sells, supplies, or offers for sale any adhesive, sealant, adhesive primer, or sealant primer:

i. for each product, the product name, product category according to 310 CMR 7.18(30)(c): *Table 1*, and *Table 2*., the VOC content of each product as supplied, and the type of product application;

ii. the volume of each product sold in Massachusetts in containers with a net volume greater than 16 fluid ounces or a net weight of more than one pound;

iii. all records required pursuant to 310 CMR 7.18(30)(d)1.b.; and

iv. any information required pursuant to 310 CMR 7.18(30)(e)2., if applicable;c. for any person who uses, or applies any adhesive, sealant, adhesive primer, or sealant primer:

i. a data sheet or materials list that provides the material name, product category according to 310 CMR 7.18(30)(c): *Table 1*, and *Table 2*., manufacturer identification, the VOC content of each product as supplied, and type of material application;

ii. a list of each adhesive, sealant, adhesive primer, sealant primer, cleanup solvent, and surface preparation solvent in use and in storage;

iii. a list of reducers, catalysts, or other components used and the as applied mix ratio;

iv. the final VOC content of any adhesive, sealant, adhesive primer, or sealant primer as applied;

v. the VOC content and vapor pressure, of any cleanup solvents, surface preparation solvents, reducers and catalysts, and VOC-containing materials used in the preparation, application, rework, and cleaning processes related to use or application of any adhesive, sealant, adhesive primer, or sealant primer;

vi. the monthly volume of each adhesive, sealant, adhesive primer, sealant primer, cleanup solvent, and surface preparation solvent used;

vii. for any person who complies with 310 CMR 7.18(30)(c)3. and 5. through the use of add-on air pollution control equipment, the key operating parameters for the control equipment, including but not limited to, the following information:

(i) the volume used per day of cleanup solvents, surface preparation solvents, and each adhesive, sealant, adhesive primer, and sealant primer that is subject to a VOC content limit specified in 310 CMR 7.18(30)(c): *Table 1* and *Table 2*; and

(ii) all records sufficient to demonstrate compliance with requirements specified in 310 CMR 7.18(30)(c)7., (2)(e), and (20);

viii. all records pertaining to compliance testing pursuant to 310 CMR 7.18(30)(h); and

ix. the monthly total facility-wide VOC emissions from all adhesives, sealants, adhesive primers, and sealant primers used or applied at any facility where a person is claiming an exemption pursuant to 310 CMR 7.18(30)(d)4.

2. For adhesives, sealants, adhesive primers, and sealant primers exempted under 310 CMR 7.18(30)(d)2., the person supplying the adhesives, sealants, adhesive primers, or sealant primers to the research and development, quality assurance, or analytical laboratory for testing or evaluation shall maintain records of all such materials supplied, including, but not limited to, the product name, the product category of the material, type of application, the VOC content of each material, and the volume of products supplied to the research and development, quality assurance, or analytical laboratory for testing or evaluation.

3. All records required to demonstrate compliance with 310 CMR 7.18(30) shall be maintained for three years from the date such record is created and shall be made available to the Department upon request.

(f) <u>Compliance Procedures And Test Methods</u>.

1. VOC content (grams per liter and percent by weight) shall be determined according to the following calculations:

a. For adhesives, sealants, adhesive primers, and sealant primers that do not contain reactive diluents, grams of VOC per liter of material, less water and exempt compounds, shall be calculated according to the following equation:

Grams of VOC per liter of material = (Ws - Ww - We) / (Vm - Vw - Ve)

Where:

- Ws = weight of volatile compounds, in grams
- Ww = weight of water, in grams
- We = weight of exempt compounds, in grams
- Vm = volume of material, in liters
- Vw = volume of water, in liters
- Ve = volume of exempt compounds, in liters

b. For adhesives, sealants, adhesive primers, and sealant primers that contain reactive diluents, the VOC content of the material is determined after curing. The grams of VOC per liter of material, less water and exempt compounds, shall be calculated according to the following equation:

Grams of VOC per liter of material = (Wrs - Wrw - Wre) / (Vrm - Vrw - Vre)

Where:

- Wrs = weight of volatile compounds not consumed during curing, in grams
- Wrw = weight of water not consumed during curing, in grams
- Wre = weight of exempt compounds not consumed during curing, in grams
- Vrm = volume of material not consumed during curing, in liters
- Vrw = volume of water not consumed during curing, in liters
- Vre = volume of exempt compounds not consumed during curing, in liters

c. For clean-up solvents, surface preparation solvents, low-solids adhesives, low-solids sealants, low-solids adhesive primers, and low-solids sealant primers, grams of VOC per liter of material shall be calculated according to the following equation:

Grams of VOC per liter of material = (Ws - Ww - We) / Vm

Where:

- Ws = weight of volatile compounds, in grams
- Ww = weight of water, in grams
- We = weight of exempt compounds, in grams
- Vm = volume of material, in liters
 - d. Percent VOC by weight shall be calculated according to the following equation:

% VOC by weight = $(Wv / W) \times 100$

Where:

Wv = weight of VOCs, in grams

W = weight of material, in grams

2. The following tests and procedures shall be used to determine the properties of adhesives, sealants, adhesive primers, sealant primers, cleanup solvents, and surface preparation solvents, and any component thereof for the purpose of compliance verification with 310 CMR 7.18(30):

a. Except as provided in 310 CMR 7.18(30)(f)2.c., and d., the VOC and solids content of all non-aerosol adhesives, adhesive primers, sealants, sealant primers, surface preparation solvents, and cleanup solvents shall be determined using U.S. EPA Reference Method 24, as identified in 40 CFR 60: *Appendix A*, or SCAQMD Method 304. The procedure for reactive adhesives in Appendix A of the NESHAP for surface coating of plastic parts (40 CFR Part 63, Subpart PPPP) shall be used to determine the VOC content of reactive adhesives.

b. The volatile organic content of exempt compounds shall be determined using the applicable ASTM International test method or any other method approved by the Department and EPA

c. The VOC content of any plastic cement welding adhesive or plastic cement welding primer shall be determined using SCAQMD Method 316A.

d. The amount of the VOC that becomes an integral part of the finished materials shall be determined using SCAQMD Method 316A.

e. The composite vapor pressure of organic compounds in surface preparation solvents and cleanup solvents shall be determined by quantifying the amount of each compound in the blend using the applicable ASTM International gas chromatographic analysis test method for organics and for water content, or any other method approved by the Department and the EPA, and the following equation:

$$Ppc = \frac{n}{[\Sigma(W_i)(Vp_i)/Mw_i]/[(W_w/Mw_w) + \frac{n}{\Sigma(W_e/Mw_e)} + \frac{n}{\Sigma(W_i/Mw_i)]}$$

$$i=1$$

$$i=1$$

$$i=1$$

Where:

Ppc = VOC composite partial pressure at 20 C, in mm Hg

- W_i = Weight of the "i"th VOC compound, in grams, as determined by the applicable ASTM International test method or any other method approved by the Department and EPA
- W_w = Weight of water, in grams as determined by the applicable ASTM International test method or any other method approved by the Department and EPA
- W_e = Weight of the "i"th exempt compound, in grams, as determined by the applicable ASTM International test method or any other method approved by the Department and the EPA
- Mw_i = Molecular weight of the "i"th VOC compound, in grams per g-mole, as given in chemical reference literature
- Mw_w = Molecular weight of water, 18 grams per g-mole
- Mw_e = Molecular weight of the "i"th exempt compound, in grams per g-mole, as given in chemical reference literature
- $Vp_i = Vapor pressure of the "i"th VOC compound at 20°C, in mm Hg, as determined by 310 CMR7.18(30)(e)2.f.$

f. The vapor pressure of each single component compound may be determined from the applicable ASTM International test method, or any other method approved by the Department and EPA, or may be obtained from any of the following sources:

i. the most recent edition of *The Vapor Pressure of Pure Substances*, Boublik, Fried, and Hala; Elsevier Scientific Publishing Company, New York;

ii. the most recent edition of Perry's *Chemical Engineer's Handbook*, McGraw-Hill Book Company;

iii. the most recent edition of *CRC Handbook of Chemistry and Physics*, Chemical Rubber Publishing Company;

iv. the most recent edition of Lange's *Handbook of Chemistry*, John Dean, editor, McGraw-Hill Book Company; or

v. additional sources approved by the SCAQMD or other California air districts.
3. If air pollution control equipment is used to meet the requirements of 310 CMR 7.18(30), the owner or operator shall make the following determinations:

a. The measurement of capture efficiency shall be conducted and reported in accordance with the EPA Technical Document, *Guidelines for Determining Capture Efficiency*, issued January 9, 1995; and

b. The control efficiency shall be determined in accordance with U.S. EPA Methods 25, 25A, 25B or CARB Method 100.

(g) <u>Container Labeling</u>.

1. The manufacturer of an adhesive, sealant, adhesive primer, or sealant primer subject to 310 CMR 7.18(30) shall display the following information on the product container or label:

a. a statement of the manufacturer's recommendation regarding thinning, reducing, or mixing of the product, except that:

i. this requirement does not apply to the thinning of a product with water; andii. if thinning of the product prior to use is not necessary, the recommendation must specify that the product is to be applied without thinning;

b. the maximum or the actual VOC content of the product in accordance with 310 CMR 7.18(30)(f), as supplied, displayed in grams of VOC per liter of product; and

c. the maximum or the actual VOC content of the product in accordance with 310 CMR 7.18(30)(f), which includes the manufacturer's maximum recommendation for thinning, as applied, displayed in grams of VOC per liter of product.

(h) Compliance Testing Requirements.

1. The manufacturer of an adhesive, adhesive primer, sealant, or sealant primer subject to 310 CMR 7.18(30) shall determine compliance with the VOC content requirements of 310 CMR 7.18(30) in accordance with 310 CMR 7.18(30)(f).

2. Any person who uses or applies an adhesive, adhesive primer, sealant, or sealant primer subject to 310 CMR 7.18(30) shall determine compliance with the VOC content requirements of 310 CMR 7.18(30) according to the following:

a. manufacturer's labeling and product technical data information; or

b. testing in accordance with provisions of 310 CMR 7.18(30)(f).

3. Any person utilizing an air pollution control device shall, upon request of the Department, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(30)(c)7.

4. Any person utilizing a spray gun system shall, upon request of the Department, perform or have performed tests to evaluate the spray gun cleaning system.

- (31) <u>U Industrial Cleaning Solvents</u>.
 - (a) <u>Applicability</u>.

1. On or after March 9, 2020, any person who owns, leases, operates or controls a facility which emits, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of volatile organic compounds (VOC) per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12 month period from industrial cleaning solvents shall comply with 310 CMR 7.18(31)(c), (d), and (f) through (h).

2. On or after March 9, 2018, any person who owns, leases, operates, or controls a facility which emits, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12 month period from industrial cleaning solvents shall comply with the work practices of 310 CMR 7.18(31)(e) for cleaning operations.

- (b) Exemptions.
 - 1. The requirements of 310 CMR 7.18(31)(d) do not apply to:

a. industrial cleaning solvent usage otherwise subject to an emission limitation in 310 CMR 7.03, 7.18, 7.25 or 7.26;

- b. stripping of cured coatings, cured ink, or cured adhesives;
- c. cleaning of the following:
 - i. solar cells;
 - ii. laser hardware;
 - iii. scientific instruments;
 - iv. high-precision optics; and
 - v. digital printing operations.

d. cleaning conducted as part of the following:

i. performance laboratory tests on coatings, adhesives, or inks;

ii. research and development programs;

iii. laboratory tests in quality assurance laboratories, excluding commerical laboratories that provide laboratory services for third parties; and

iv. quality assurance / quality control cleaning activities in manufacturing processes;

e. cleaning of paper-based gaskets and clutch assemblies where the rubber is bonded to metal by means of an adhesive;

f. cleaning operations in printing pre-press areas, including the cleaning of film processors, color scanners, plate processors, film cleaning, and plate cleaning;

g. medical device and pharmaceutical manufacturing operations;

h. cleaning of application equipment used to apply coatings on satellites and radiation effect coatings;

i. touch-up cleaning performed on printed circuit boards where surface mounted devices have already been attached;

j. cleaning of ultraviolet or electron beam adhesive application;

k. coating, ink, resin, and adhesive manufacturing.

2. The work practice in 310 CMR 7.18(31)(e)5. does not apply to the cleaning of the nozzle tips of automated spray equipment systems.

3. The requirements of 310 CMR 7.18(31) do not apply to cleaning operations associated with aerospace manufacturing and rework operations, including operations subject to the requirements of 40 CFR part 63 subpart GG, National Emissions Standards for Aerospace Manufacturing and Rework Facilities.

(c) <u>Extensions</u>. Any person subject to 310 CMR 7.18(31)(a)1. may apply in writing to the Department for a nonrenewable extension of the implementation deadline in 310 CMR 7.18(31)(a)1. by complying with 310 CMR 7.18(31)(f). The Department will consider a nonrenewable extension of the deadline in 310 CMR 7.18(31)(a)1. for persons applying under 310 CMR 7.18(31)(c) until no later than March 9, 2021, provided the emission control plan submitted for approval under 310 CMR 7.18(20) meets the following criteria in addition to those of 310 CMR 7.18(20):

1. a Toxics Use Reduction Plan or a Resource Conservation Plan completed for the facility in accordance with 310 CMR 50.40 through 310 CMR 50.48 is submitted as part of the emission control plan;

2. the Toxics Use Reduction Plan or Resource Conservation Plan was certified by a Toxics Use Reduction Planner certified under M.G.L. c. 21I, and 310 CMR 50.50 through 50.63;

3. the emission control plan proposes to reduce emissions or natural asset use, from the process or elsewhere in the facility, more than otherwise required pursuant to an applicable regulation or approval of the Department, through toxics use reduction techniques or resource conservation actions as defined in M.G.L. c. 21I; and

4. implementation of the emission control plan meets the emission limitations of 310 CMR 7.18(31)(d).

(d) <u>Reasonably Available Control Technology Requirements</u>. Any person subject to 310 CMR 7.18(31) shall limit VOC emissions by complying with one or more of the requirements in 310 CMR 7.18(31)(d)1., 2., or 3.

1. <u>VOC Content Limitation</u>. Use industrial cleaning solvents that have a VOC content no greater than the emission limitations listed in Table 310 CMR 7.18(31)(d)1. If an operation can be classified in more than one industrial cleaning solvent operation category in Table 310 CMR 7.18(31)(d)1., then the least stringent category limitation shall apply.

Table 310 CMR 7.18(31)(d)1.			
RACT Emission Limitations for Industrial Cleaning Solvent Operations			
VOC content limitation as applied			
Industrial Cleaning Solvent Operation Category	pounds/gallon	grams/liter	
Electrical and electronic components	0.83	100	
Electronic or electrical cables	3.32	400	
Product cleaning during manufacturing process, or repair			
and maintenance cleaning	0.42	50	
Surface preparation for coating or ink application	0.42	50	
Cleaning not otherwise specified			

2. <u>Vapor Pressure Limitation</u>. Use industrial cleaning solvents that have a VOC composite partial pressure equal to or less than eight mm Hg at 20° C (68°F).

3. <u>Add-on Air Pollution Capture and Control Equipment</u>. Achieve an overall VOC control efficiency of at least 85% by weight using add-on air pollution capture and control equipment.

(e) <u>Work Practices for Cleaning Operations</u>. Any person subject to 310 CMR 7.18(31) shall minimize VOC emissions of industrial cleaning solvents in accordance with, but not limited to, the following practices:

1. covering any container containing solvent or solvent-contaminated material;

2. storing any solvent-contaminated material (such as cleaning rags) or equipment (such as used applicators) in closed containers;

3. cleaning spray guns in an enclosed system or manually cleaning and flushing spray guns without atomizing the cleaning solvent;

4. collecting and storing used solvent in a closed container;

5. not atomizing any cleaning solvent unless the emissions are vented to add-on air pollution capture and control equipment that meets the requirement of 310 CMR 7.18(31)(d)3.;

6. conveying solvent in closed containers or pipes;

7. maintaining cleaning equipment and solvent containers, including repairing solvent leaks;

8. cleaning up any spills immediately; and

9. properly disposing of any solvent and solvent-contaminated waste.

In addition, any person who is directed to comply with 310 CMR 7.18(31)(e) by any other subsection of 310 CMR 7.18, shall utilize the work practices outlined in 310 CMR 7.18(31)(e) to minimize VOC emissions.

(f) <u>Plan and Extension Submittal Requirements</u>.

1. Any person subject to 310 CMR 7.18(31)(a)1. who chooses to install add-on air pollution capture and control equipment to comply with 310 CMR 7.18(31)(d) shall submit an emission control plan in accordance with 310 CMR 7.18(20).

2. Any person subject to 310 CMR 7.18(31)(a)1. who chooses to apply for an extension under 310 CMR 7.18(31)(c) shall comply with 310 CMR 7.18(20).

(g) <u>Recordkeeping Requirements</u>. Any person subject to 310 CMR 7.18(31)(a) shall prepare and maintain records sufficient to demonstrate compliance consistent with 310 CMR 7.18(2). Records kept to demonstrate compliance shall be kept on-site for five years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved emission control plan or upon request. Such records shall include, but are not limited to:

1. name, identification, quantity, formulation and density of industrial cleaning solvent(s) used;

2. any other requirements specified by the Department in any approval(s) issued under 310 CMR 7.18(20) or any order(s) issued to the person;

3. when complying through 310 CMR 7.18(31)(d)1., the associated category from Table 310 CMR 7.18(31)(d)1. and the VOC content of each industrial cleaning solvent, in pounds per gallon or grams per liter, as applied;

4. when complying through 310 CMR 7.18(31)(d)2, the VOC composite partial pressure of each industrial cleaning solvent used in the industrial cleaning operation; and 5. when complying through 310 CMR 7.18(31)(d)3., all records required by 310 CMR 7.18(2)(e) necessary to demonstrate the VOC control efficiency.

(h) <u>Testing Requirements</u>. Any person subject to 310 CMR 7.18(31)(a) shall, upon request of the Department, perform or have performed tests to demonstrate compliance with 310 CMR 7.18(31). Testing shall be conducted in accordance with EPA Methods 24, 25, 25A or 25B as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA. EPA Method 25A shall be used when:

1. an exhaust concentration of less than or equal to 50 parts per million volume (ppmv) as carbon is required to comply with the applicable limitation;

2. the inlet concentration and the required level of control results in an exhaust concentration of less than or equal to 50 ppmv as carbon; or

3. the high efficiency of the control device alone results in an exhaust concentration of less than or equal to 50 ppmv as carbon.

- (32) Fiberglass Boat Manufacturing.
 - (a) <u>Applicability</u>.

1. On or after March 9, 2020, any person who owns, leases, operates, or controls a fiberglass boat manufacturing facility and related cleaning operations which emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of volatile organic compounds (VOC) per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12 month period shall comply with 310 CMR 7.18(32)(b), (d), (e), (f), (g)3. and 4. and (h) through (j).

2. On or after March 9, 2018, any person who owns, leases, operates, or controls a fiberglass boat manufacturing facility and related cleaning operations which emit, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12 month period shall comply with the work practices of 310 CMR 7.18(32)(g)1. and 2. for manufacturing and cleaning operations.

- 3. 310 CMR 7.18(32) does not apply to the following activities:
 - a. surface coatings applied to fiberglass boats and metal recreational boats or pleasure crafts;
 - b. closed molding operations; and
 - c. industrial adhesives used in the assembly of fiberglass boats, with the exception of polyester resin putties used to assemble fiberglass parts, which are not considered adhesives for the purpose of 310 CMR 7.18(32).

(b) <u>Definitions</u>. The definitions found in 310 CMR 7.00 apply to 310 CMR 7.18(32). The following words and phrases shall have the following meanings as they appear in 310 CMR 7.18(32). Where a term is defined in both 310 CMR 7.00: *Definitions* and 310 CMR 7.18(32), the definition in 310 CMR 7.18(32) shall apply.

<u>CLOSED MOLDING</u> means a fiberglass boat manufacturing process by which pressure is used to distribute a resin through reinforcing fabric placed between two mold surfaces to either saturate the fabric or fill the mold cavity. The term includes, but is not limited to, compression molding with sheet molding compound, infusion molding, resin injection molding, vacuum-assisted resin transfer molding, resin transfer molding, and vacuumassisted compression molding. The term does not include any processes in which a closed mold is used only to compact saturated fabric or remove air or excess resin from the fabric, such as in vacuum bagging.

FIBERGLASS means a material consisting of extremely fine glass fibers.

<u>FIBERGLASS BOAT MANUFACTURING FACILITY</u> means any facility that manufactures hulls, decks, or boats from fiberglass, or builds molds to make fiberglass boat hulls or decks. A facility is not considered a fiberglass boat manufacturing facility if the facility solely manufactures:

- 1. parts of boats, such as hatches, seats, or lockers; or
- 2. boat trailers.

<u>FILLED RESIN</u> means a resin to which fillers have been added to achieve certain physical properties, particularly for building fiberglass boat molds.

<u>GEL COAT</u> means a clear or pigmented polyester resin that, when mixed with a hardening catalyst, is applied so that it becomes the outer surface of the finished part or mold.

<u>MONOMER</u> means a VOC that partially combines with itself, or with other similar compounds, by a cross-linking reaction to become a part of the cured resin.

<u>OPEN MOLDING</u> means a family of techniques for composite fabrication which make use of single-cavity molds and require little or no external pressure.

<u>PRODUCTION RESIN</u> or gel coat means a resin or gel coat that is used to fabricate fiberglass boat hulls or decks.

<u>ROLL-OUT</u> means the process of using rollers, squeegees, or similar tools to compact reinforcing materials saturated with resin to remove trapped air or excess resin.

SKIN COAT means the first layer of resin applied to the gel coat.

<u>TOOLING RESIN</u> or <u>TOOLING GEL COAT</u> means a resin or gel coat used to build molds and which is normally harder, more heat-resistant, and more dimensionally stable than production materials.

<u>VACUUM BAGGING</u> means any molding technique in which the reinforcing fabric is saturated with resin and then covered with a flexible sheet that is sealed to the edge of the mold and where a vacuum is applied under the sheet to compress the laminate, remove excess resin, or remove trapped air from the laminate during curing. Vacuum bagging does not include processes that meet the definition of closed molding.

<u>VINYLESTER RESIN</u> means a thermosetting resin containing esters of acrylic or methacrylic acids and having double-bond and ester linkage sites only at the ends of the resin molecules.

(c) <u>Exemptions</u>. The requirements in 310 CMR 7.18(32)(e) shall not apply to the following:

1. production resins, including skin coat resins, applied with non-atomizing resin application equipment, that must meet specifications under 46 CFR chapter I subchapter Q (Equipment, Construction and Materials: Specifications and Approval) or 46 CFR chapter I subchapter T (Small Passenger Vessels (Under 100 Gross Tons));

2. production and tooling resins, and pigmented, clear, and tooling gel coats used for part or mold repair and touch-up not exceeding one percent by weight of all resins and gel coats used at a fiberglass boat manufacturing facility during any consecutive 12-month period; or

3. 100% vinylester skin coat resins, applied with non-atomizing resin application equipment, that do not exceed five percent by weight of all resins and gel coats used at a fiberglass boat manufacturing facility during any consecutive 12-month period.

(d) Extensions. Any person subject to 310 CMR 7.18(32)(e) may apply in writing to the Department for a non-renewable extension of the implementation deadline in 310 CMR 7.18(32)(a)1. by complying with 310 CMR 7.18(32)(h). The Department will consider a non-renewable extension of the deadline in 310 CMR 7.18(32)(a)1. for persons applying under 310 CMR 7.18(32)(d) until no later than March 9, 2021, provided the emission control plan submitted for approval under 310 CMR 7.18(20) meets the following criteria in addition to those of 310 CMR 7.18(20):

1. a Toxics Use Reduction Plan or a Resource Conservation Plan completed for the facility in accordance with 310 CMR 50.40 through 50.48 is submitted as part of the emission control plan;

2. the Toxics Use Reduction Plan or Resource Conservation Plan was certified by a Toxics Use Reduction Planner certified under M.G.L. c. 21I and 310 CMR 50.50 through 50.63;

3. the emission control plan proposes to reduce emissions or natural asset use, from the process or elsewhere in the facility, more than otherwise required pursuant to an applicable regulation or approval of the Department, through toxics use reduction techniques or resource conservation actions as defined in M.G.L. c. 21I; and

4. implementation of the emission control plan meets the emission limitations of 310 CMR 7.18(32)(e).

(e) <u>Reasonably Available Control Technology Emission Limitations for Resins and Gel</u> <u>Coats</u>. Any person subject to 310 CMR 7.18(32) shall limit VOC emissions by complying with one or more of the requirements in 310 CMR 7.18(32)(e)1. through 4., and complying with 310 CMR 7.18(32)(e)5. and 6. as applicable.

1. <u>Monomer VOC Content Limitations</u>. Use only materials having a VOC content no greater than the limitations in Table 310 CMR 7.18(32)(e)1.

Table 310 CMR 7.18(32)(e)1.					
Compliant Materials Monomer VOC Content Limitations for Open Molding Resins and Gel					
Coats					
Material Used	Application Method	Monomer VOC Content Limitation			
		(weight percent, as applied)			
Production Resin	Atomized (spray)	28			
Production Resin	Non-atomized	35			
Pigmented gel coat	Any method	33			
Clear gel coat	Any method	48			
Tooling resin	Atomized	30			
Tooling resin	Non-atomized	39			
Tooling gel coat	Any method	40			

2. <u>Weighted-Average Monomer VOC Content</u>. Emit no more, in a consecutive 12month period, than the applicable monomer VOC content limitation for a specific category and application method in Table 310 CMR 7.18(32)(e)1. determined using Equation 1:

<u>Equation 1</u>: Weighted-average monomer VOC content = $\sum_{i=1}^{n} (M_i \text{ VOC}_i) / \sum_{i=1}^{n} (M_i)$

where:

- M_i = the mass of open molding resin or gel coat i used in an operation in the past consecutive 12-month period, in megagrams;
- $VOC_i =$ monomer VOC content, by weight percent, of open molding resin or gel coat i used in an operation in the past consecutive 12-month period; and
- n = the number of different open molding resins or gel coats used in an operation in the past consecutive 12-month period.

3. <u>Material Emissions Average</u>. Any person subject to 310 CMR 7.18(32) may calculate the weighted-average emission rate that is equivalent to the use of compliant resin and gel coat materials contained in Table 310 CMR 7.18(32)(e)1. For a particular consecutive 12-month period, the actual monomer VOC emissions calculated in Equation 3 shall not exceed the allowable monomer VOC emissions calculated in Equation 2. The allowable monomer VOC emissions shall be recalculated monthly using the current month's and previous 11 months' actual monomer usage. For each consecutive 12-month period:

- a. identify each resin and gel coat material to be included in the calculation;
- b. use Equation 2 to determine the allowable monomer VOC emissions limitation;
- c. use Equation 3 to determine the actual monomer VOC emissions; and

d. use Equation 4 to determine the weighted-average monomer VOC emission rate (PV_{op}) for each resin and gel coat material operation for the consecutive 12-month period in Equation 3.

Equation 2: Allowable Monomer VOC Limitation = $46(M_R) + 159(M_{PG}) + 291(M_{CG}) + 54(M_{TR}) + 214(M_{TG})$

The numerical coefficients of Equation 2 are the allowable monomer VOC emission rates for the particular materials in units of kg/Mg of material used.

where:

- M_R = the mass of production resin used in the past consecutive 12-month period, excluding any materials that are exempt, in megagrams;
- M_{PG} = the mass of pigmented gel coat used in the past consecutive 12-month period, excluding any materials that are exempt, in megagrams;
- M_{CG} = the mass of clear gel coat used in the past consecutive 12-month period, excluding any materials that are exempt, in megagrams;
- M_{TR} = the mass of tooling resin used in the past consecutive 12-month period, excluding any materials that are exempt, in megagrams; and
- M_{TG} = the mass of tooling gel coat used in the past consecutive 12-month period, excluding any materials that are exempt, in megagrams.

Equation 3: Actual Monomer VOC emissions = $(PV_R)(M_R) + (PV_{PG})(M_{PG}) + (PV_{CG})(M_{CG}) + (PV_{TR})(M_{TR}) + (PV_{TG})(M_{TG})$

where:

- PV_R = the weighted-average monomer VOC emission rate for production resin used in the past consecutive 12-month period, in kilograms per megagram as calculated using Equation 4;
- M_R = the mass of production resin used in the past consecutive 12-month period, in megagrams;
- PV_{PG} = the weighted-average monomer VOC emission rate for pigmented gel coat used in the past consecutive 12-month period, in kilograms per megagram as calculated using Equation 4;
- M_{PG} = the mass of pigmented gel coat used in the past consecutive 12-month period, in megagrams;
- PV_{CG} = the weighted-average monomer VOC emission rate for clear gel coat used in the past consecutive 12-month period, in kilograms per megagram as calculated using Equation 4;
- M_{CG} = the mass of clear gel coat used in the past consecutive 12-month period, in megagrams;
- PV_{TR} = the weighted-average monomer VOC emission rate for tooling resin used in the past consecutive 12-month period, in kilograms per megagram as calculated using Equation 4;
- M_{TR} = the mass of tooling resin used in the past consecutive 12-month period, in megagrams;
- PV_{TG} = the weighted-average monomer VOC emission rate for tooling gel coat used in the past consecutive 12-month period, in kilograms per megagram as calculated using Equation 4; and
- M_{TG} = the mass of tooling gel coat used in the past consecutive 12-month period, in megagrams.

Equation 4: $PV_{OP} = \sum_{i=1}^{n} (M_i PV_i) / \sum_{i=1}^{n} (M_i)$

where:

- M_i = the mass of resin or gel coat i used within an operation in the past consecutive 12-month period, in megagrams;
- n = the number of different open molding resins and gel coats used within an operation in the past consecutive 12-month period;
- PV_i = the monomer VOC emission rate for resin or gel coat i used within an operation in the past consecutive 12-month period, in kilograms of monomer VOC per megagram of material applied. Use the equations in Table 310 CMR 7.18(32)(e)3. to compute PV_i; and
- PV_{OP} = the sum of the products of M_i and PV_i for open molding resin or gel coats one through n, divided by M_i one through n, as in Table 310 CMR 7.18(32)(e)3.

Table 310 CMR 7.18(32)(e)3.				
Monomer VOC Emission Rate Equations for Open Molding Operations				
Material Used	Application Method	Equation to Calculate Monomer		
		VOC Emission Rate PV _i		
		(kg of monomer VOC per Mg of		
		material applied) =		
	Atomized	0.014 x (Resin VOC%) ^{2.425}		
	Atomized, plus vacuum bagging	0.01185 x (Resin VOC%) ^{2.425}		
	with roll-out			
	Atomized, plus vacuum bagging	0.00945 x (Resin VOC%) ^{2.425}		
Production resin, tooling resin	without roll-out			
	Non-atomized	0.014 x (Resin VOC%) ^{2.275}		
	Non-atomized, plus vacuum	0.0110 x (Resin VOC%) ^{2.275}		
	bagging with roll-out			
	Non-atomized, plus vacuum	0.0076 x (Resin VOC%) ^{2.275}		
	bagging without roll-out			
Pigmented gel coat, clear	All methods	0.445 x (Gel coat VOC%) ^{1.675}		
gel coat, tooling gel coat				

4. <u>Add-on Air Pollution Capture and Control Equipment</u>. Use add-on air pollution capture and control equipment to emit no more than a numerical monomer VOC emission limitation that is determined for each facility in accordance with Equation 2, based on the mix of application methods and materials used at that facility, except that instead of using the mass of each material used over the past consecutive 12-month period, the facility shall use the mass of each material used during the air pollution control device performance test.

5. <u>Filled Resin Emission Rate</u>. In addition to complying with 310 CMR 7.18(32)(e)1., 2., 3. or 4., the following shall be used in calculating the emission rate for the filled resins used at the facility:

a. when using a filled production resin or filled tooling resin, any person subject to 310 CMR 7.18(32) shall calculate the emission rate for the filled material on an asapplied basis using Equation 5:

<u>Equation 5</u>: $PV_F = PV_U x (100 - \% Filler) / 100$

where:

- PV_F = the as-applied monomer VOC emission rate for the filled production resin or tooling resin, kilograms monomer VOC per megagram of filled material;
- PV_{U} = the monomer VOC emission rate for the neat or unfilled resin, before filler is added, as calculated using the equations in Table 310 CMR 7.18(32)(e)3.; and
- % Filler = the weight percent of filler in the as-applied filled resin system.

b. If the filled resin is used as a production resin, the value of PV_F calculated using Equation 5 shall not exceed 46 kilograms of monomer VOC per megagram of filled resin applied.

c. If the filled resin is used as a tooling resin, the value of PV_F calculated using Equation 5 shall not exceed 54 kilograms of monomer VOC per megagram of filled resin applied.

d. If the facility includes a filled resin in the facility-specific material emissions averaging procedure, the facility shall use the value of PV_F calculated using Equation 5 for the value of PV_i in 310 CMR 7.18(32)(e)3., Equation 4.

6. Non-monomer VOC Content.

a. Up to 5% by weight of non-monomer VOC content of a resin or gel coat shall be exempt from the VOC content limitations of 310 CMR 7.18(32)(e).

b. If the non-monomer VOC content of a resin or gel coat exceeds five percent by weight, then the excess non-monomer VOC over five percent by weight shall be added to the monomer VOC content in determining compliance with 310 CMR 7.18(32)(e).

(f) <u>Application Methods</u>. Production resins, including skin coat resins, that must meet specifications under 46 CFR chapter I subchapter Q (Equipment, Construction and Materials: Specifications and Approval) or 46 CFR chapter I subchapter T (Small Passenger Vessels (Under 100 Gross Tons)), and that do not meet the requirements in 310 CMR 7.18(32)(e), shall be applied with non-atomizing resin application equipment.

(g) <u>Work Practices and Emission Limitations for Cleaning Operations and Resin and Gel</u> <u>Coat Mixing Containers</u>.

1. Any person subject to 310 CMR 7.18(32) shall comply with the work practices of 310 CMR 7.18(31)(e).

2. Any person subject to 310 CMR 7.18(32) using resin and gel coat mixing containers with a capacity equal to or greater than 208 liters, equivalent to 55 gallons, including those used for on-site mixing of putties and polyputties, shall have a cover with no visible gaps in place at all times, except when material is being manually added to or removed from a container, or when mixing or pumping equipment is being placed in or removed from a container.

3. Any person subject to 310 CMR 7.18(32) shall only use VOC cleaning solvents for routine application equipment cleaning that either:

a. contain no more than five percent VOC by weight; or

b. have a VOC composite partial pressure of no more than 0.50 mm Hg at 68°F.
4. Any person subject to 310 CMR 7.18(32) shall only use non-VOC solvents to remove cured resin and gel coat from application equipment.

(h) Plan and Extension Submittal Requirements.

1. Any person subject to 310 CMR 7.18(32)(a)1. who chooses to install add-on air pollution capture and control equipment to comply with 310 CMR 7.18(32)(e) shall submit an emission control plan in accordance with 310 CMR 7.18(20).

2. Any person subject to 310 CMR 7.18(32)(a)1. who chooses to apply for an extension under 310 CMR 7.18(32)(d) shall comply with 310 CMR 7.18(20).

(i) <u>Recordkeeping Requirements</u>. Any person subject to 310 CMR 7.18(32)(a) shall prepare and maintain records sufficient to demonstrate compliance consistent with 310 CMR 7.18(2). Records kept to demonstrate compliance shall be kept on site for five years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved emission control plan or upon request. Such records shall include, but are not limited to:

1. identity, quantity, formulation and density of resins and gel coat(s) used;

2. identity, quantity, formulation and density of any diluent(s) and clean-up solvent(s) used;

3. solids content of any gel coat(s) or resins used;

4. actual operational and emissions characteristics of the operation and any appurtenant emissions capture and control equipment;

5. quantity of product processed, if necessary to determine emissions; and

6. any other requirements specified by the Department in any approval(s) issued under 310 CMR 7.18(20) or any order(s) issued to the person.

(j) <u>Testing Requirements</u>. Any person subject to 310 CMR 7.18(32)(a) shall, upon request of the Department, perform or have performed the following tests, as applicable, to demonstrate compliance with 310 CMR 7.18(32).

1. Testing to determine the monomer VOC content of resin and gel coat materials shall be conducted in accordance with SCAQMD Method 312-91, Determination of Percent Monomer in Polyester Resins, revised April 1996.

2. Testing to determine the non-monomer VOC content of resin and gel coat materials shall be conducted in accordance with EPA Method 24 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA.

3. If acceptable to the Department and EPA, manufacturer's formulation data may be used to demonstrate compliance with monomer and non-monomer VOC content limitations. In the case of a dispute, the VOC content determined using SCAQMD Method 312-91 and EPA Method 24 shall prevail, unless a person is able to demonstrate to the satisfaction of the Department and EPA that the manufacturer's formulation data are correct.

4. EPA Method 25A shall be used when:

a. an exhaust concentration of less than or equal to 50 parts per million volume (ppmv) as carbon is required to comply with the applicable limitations;

b. the inlet concentration and the required level of control results in an exhaust concentration of less than or equal to 50 ppmv as carbon; or

c. the high efficiency of the control device alone results in an exhaust concentration of less than or equal to 50 ppmv as carbon.

7.19: U Reasonably Available Control Technology (RACT) for Sources of Oxides of Nitrogen (NO_x)

(1) <u>Applicability</u>.

(a) 310 CMR 7.19 shall apply in its entirety to any person who owns, leases, operates or controls any facility having potential to emit, before application of air pollution control equipment, greater than or equal to 50 tons per year (TPY) of NO_x .

(b) Any person who owns, leases, operates or controls a facility subject to 310 CMR 7.19, which has had actual emissions greater than or equal to 50 TPY in any year after 1989, shall continue to comply with all requirements of 310 CMR 7.19 even if emissions from the subject facility no longer exceed the 50 TPY applicability threshold in 310 CMR 7.19(1)(a).
(c) The requirements of 310 CMR 7.19 do not apply to:

1. Any person subject to 310 CMR 7.19 who is able to demonstrate to the Department that, after calendar year 1989, the facility has not emitted 50 TPY or more of NO_x , provided that the person obtains a permit restriction from the Department under 310 CMR 7.02(9) (Restricted Emission Status or RES) by May 31, 1995, which restricts the potential emissions to below 50 TPY, and complies with the permit restriction by May 31, 1995. Persons who have obtained an RES prior to May 31, 1995, may notify the Department of their intent to operate in compliance with one of the rolling 12-month emission caps under 310 CMR 7.02(11)(e) or (f) as a means of limiting the facility's potential emissions to 25 TPY or less of NO_x .

2. Any emission unit that has a permit restriction prohibiting it from operating between May 1^{st} and September 30^{th} of each year and restricting potential emissions to less than 50 tons per year of NO_x from the emission unit.

3. Any boiler having an energy input capacity of less than 20,000,000 Btu per hour provided that potential emissions from the emission unit are less than 50 TPY of NO_x .

4. Any stationary combustion turbine having an energy input capacity of less than 25,000,000 Btu per hour.

5. Any stationary reciprocating internal combustion engine having an energy input capacity of less than 3,000,000 Btu per hour.

6. Any glass melting furnace having a maximum production rate of less than 14 tons of glass removed from the furnace per day.

7. Any other furnace, kiln, dryer or oven having potential emissions less than 25 TPY of NO_x .

8. Any municipal waste combustor unit having potential emissions of less than 25 TPY of No_x .

9. Any person who, since January 1, 1990, obtains a plan approval for an emission unit under 310 CMR 7.02 where such approval establishes BACT or LAER to be no less stringent than the RACT applicable to the facility size and type, as defined in 310 CMR 7.19. Such person shall comply with the BACT or LAER established in the plan approval, and is not subject to RACT standards of 310 CMR 7.19 as may otherwise be applicable, until the applicable RACT standards of 310 CMR 7.19 become more stringent than the BACT or LAER established in the plan approval, at which time the person shall become subject to the updated RACT standards.

10. Any large municipal waste combustor unit subject to 310 CMR 7.08(2).

11. Any engine subject to and in compliance with 310 CMR 7.26(43).

(d) Any large boiler subject to 310 CMR 7.19(4)(b), or combustion turbine subject to 310 CMR 7.19(7)(b), that, as of March 9, 2018 has an annual capacity factor of less than 10% averaged over the most recent three year consecutive period, shall not be required to meet the applicable emission standards. If such a boiler or combustion turbine subsequently meets or exceeds the 10% capacity factor based on a three calendar year consecutive period, the owner/operator of the boiler or combustion turbine shall notify the Department in writing, and, if applicable, submit an Emission Control Plan pursuant to 310 CMR 7.19(3)(a)1., within 180 days of the end of the three-year period, and shall comply with the applicable NO_x emission standards within two years of the end of the three-year period.

(2) <u>General Provisions</u>.

(a) After May 31, 1995, any person subject to 310 CMR 7.19 shall achieve and maintain continuous compliance with all requirements of 310 CMR 7.19.

(b) Any person unable to comply with emission standards under 310 CMR 7.19(4)(b), (7)(b), (8)(d) or (9) may submit an application under 310 CMR 7.19(3) for a source specific alternative RACT. Such application shall be submitted to the Department for approval no later than September 5, 2018. No later than March 10, 2020, a person approved under 310 CMR 7.19(2)(b) must comply with the approved source specific alternative RACT. Such application must evaluate each of the following NO_x controls, where it may be applied, and its technological and economic feasibility.

- 1. low-NO_x burners;
- 2. close coupled and separated overfire air;
- 3. flue gas recirculation;
- 4. burners out of service;
- 5. steam/water injection;
- 6. dry low-NO_x combustors;
- 7. ignition timing retard;
- 8. low emission combustion for reciprocating internal combustion engines;
- 9. separate circuit after-cooling;
- 10. fuel emulsification;
- 11. fuel switching;
- 12. selective noncatalytic reduction (SNCR);
- 13. selective catalytic reduction (SCR);
- 14. nonselective catalytic reduction (NSCR).
- 15. gas reburn; and
- 16. use of emission reduction credits (ERCs) certified by the Department pursuant to
- 310 CMR 7.00: Appendix B(3), or pursuant to the interstate trading provisions at 310 CMR 7.00: Appendix B(3)(f).

Any person approved under 310 CMR 7.19(2)(b) must comply with the requirements of 310 CMR 7.19(13), except as specified in 310 CMR 7.19(9)(b).

(c) An emission unit subject to 310 CMR 7.19 shall be operated under conditions acceptable to the Department and EPA, and consistent with the operational parameters and limits established in the approved emission control plan.

(d) Any person subject to 310 CMR 7.19 may elect to comply with a more stringent NO_x limit in order to; create Emission Reduction Credits under 310 CMR 7.00: *Appendix* B(3); create emissions offsets for use under the provisions of 310 CMR 7.00: *Appendix* A(6); reduce the net emissions increase below the significance level under 310 CMR 7.00: *Appendix* A(6); *Appendix* A(3); emissions average under 310 CMR 7.19(14) and 7.00: *Appendix* B(4).

(e) Any person subject to a more stringent emission standard either contained in a plan approval (issued pursuant to the Department's regulations) or in a PSD permit or contained in a Department regulation shall remain subject to that more stringent emission standard.

(f) <u>Seasonal Fuel Switching</u>. After May 31, 1995 but before March 9, 2018, any person owning, leasing, operating or controlling an emissions unit subject to an emissions standard contained in 310 CMR 7.19 may choose to have the emissions unit comply with 310 CMR 7.19(2)(f) instead of an emissions limit contained in 310 CMR 7.19(4) through (11) by fuel switching.

1. The 12 month rolling average NO_x emissions standard, in pounds per million Btu, shall be less than or equal to the NO_x emissions standard calculated in the following manner.

a. The annual limit shall be determined according to the following equation: $(HI_1)x(ES_1)+(HI_2)x(ES_2)....+(HI_N)x(ES_N)$

$$AS_{NOx} =$$

 $HI_1 + HI_2 \dots + HI_N$

- AS_{NOx} is the annual standard for nitrogen oxides derived from all fuels fired during the base year.
- HI_1 is the heat input for fuel 1 in Btu during the base year.
- ES_1 is the emissions standard for fuel 1 contained in 310 CMR 7.19(4) through (11), except that for tangential oil or oil and gas fired boilers, the emissions standard is 0.2 pounds per million Btu.
- N is the number of fuels burned during the base year.

b. The base year shall be 1990. 1991 or 1992 may be used instead if the Department determines 1991 or 1992 is more representative of normal operation.

2. The maximum daily NO_x emissions standard from May 1st through September 30th shall be the emissions standard allowed under 310 CMR 7.19(4) through (11) for the fuel burned in the largest amount, on a Btu basis, during the base year. However, for tangential oil or oil and gas fired boilers, the emissions standard is 0.2 pounds per million Btu.

3. The emission unit(s) must burn only the fuel, of the fuels it is approved to burn, that has the lowest NO_x emissions rate, between May 1 and September 30 of each year unless the fuel is not available.

(g) Emission Reduction Credits. Any facility may comply, either in part, or entirely, with the applicable emissions standard requirement contained in 310 CMR 7.19 through the use of emissions reduction credits (ERCs) certified by the Department pursuant to 310 CMR 7.00: *Appendix* B(3). For any ERCs generated from emissions reductions at a facility that, if it were operating after March 9, 2018, would be subject to 310 CMR 7.19(4)(b), 7.19(7)(b), and 7.19(8)(d), and such ERCs were certified prior to March 9, 2018 in accordance with Appendix B(3), the Department shall devalue the ERCs based on the ratio of the new applicable NO_x RACT emission standard to the lower of the actual emissions or the allowable NO_x RACT emission standard that was used to generate the ERCs.

- (3) Emission Control Plans for Implementation of RACT.
 - (a) 1. <u>General Applicability</u>. After March 9, 2018, any person owning, leasing, operating or controlling a facility subject to 310 CMR 7.19(4)(b), (7)(b), or (8)(d) that requires installation of air pollution controls or retrofitting of air pollution controls, or proposes to use ERCs, to meet applicable emission standards shall submit an Emission Control Plan to the Department within 180 days of March 9, 2018.

 Any person subject to 310 CMR 7.19(9) shall submit an Emission Control Plan by September 5, 2018 for Department approval in accordance with 310 CMR 7.19(9)(b).
 Any person using ERCs in accordance with 310 CMR 7.19(2)(b)16. shall submit an

Emission Control Plan.

(b) <u>Emission Control Plan Requirements</u>. The emission control plan under 310 CMR 7.19(3) shall be submitted on a Department approved form and shall include, at a minimum, the following:

1. a list and description of all the exempt and non-exempt emission units at the facility having potential to emit NO_x including:

a. any associated plan approvals, dates of installation, any subsequent alterations, *etc.*;

b. the maximum energy input capacity, in millions of Btu per hour, of each emission unit;

c. for fuel utilization facilities, the type of fuel(s) permitted to be burned in each emission unit;

d. the maximum NO_x emissions rate of each unit, in pounds per million Btu, for each fuel burned before and after the application of NO_x RACT;

e. the total actual fuel usage and energy input in million Btu for each fuel for each of the last two years for each emission unit;

f. the energy conversion efficiency (in brake horsepower hour output per million Btu input (HHV)) for each reciprocating internal combustion engine;

g. the O_2 exhaust gas concentration and the dry standard cubic feet per million Btu of energy input for each stationary combustion turbine; and

h. the energy input, million Btu, per ton of glass produced for glass manufacturing furnaces.

2. a demonstration that the provisions of 310 CMR 7.19 can be met by each emission unit included in the emission control plan, including the potential emissions after implementation of RACT of all emission units emitting NO_x for which the emission control plan is being submitted. A demonstration that combustion conditions will not significantly deteriorate shall be included for any emission unit for which a higher CO emission standard is being applied pursuant to 310 CMR 7.19(4)(f).

3. if applicable, the control efficiency, design, specifications, and standard operating and maintenance procedures for any control equipment used to reduce NO_x emissions to implement RACT;

4. the testing, monitoring, recordkeeping and reporting procedures, as contained in 310 CMR 7.19(13), used to demonstrate compliance with 310 CMR 7.19;

5. a schedule for the implementation of RACT at the facility, including provisions for demonstrating periodic increments of progress and demonstrating compliance;

6. any other information required by the Department; and

7. the signature of a responsible official.

(c) <u>Additional Requirements for Demonstration of RACT</u>. An emission control plan submitted by any person who owns, leases operates or controls a facility or part of a facility subject to 310 CMR 7.19(2)(b), (4)(c) or (12), must meet the following requirements in addition to the requirements under 310 CMR 7.19(3)(b).

1. The plan must demonstrate the emission limits reflecting the application of RACT for that facility or part thereof; and

2. The plan must include pertinent information supporting the demonstration made under 310 CMR 7.19(3)(c)1, including technical and economic considerations.

(d) <u>Approval of an Emission Control Plan</u>. For persons applying under 310 CMR 7.19(2)(b) or (4)(c) or (12) or (14), for each ECP application where the information submitted subject to 310 CMR 7.19(3)(d) is sufficient to support the emissions limits and the proposed schedule, the Department shall:

1. Provide a 30-day period for submittal of public comment;

2. Post on a public website identified by the Department (which may be the Department's own website), for the duration of the public comment period, the following:a. Notice of availability of the Department's proposed decision to approve or deny

the ECP application and information on how to submit public comment;

b. The Department's proposed decision to approve or deny the ECP application; andc. Information on how to access the administrative record for the Department's proposed decision to approve or deny the ECP application.

3. Send a copy of the notice required under 310 CMR 7.19(3)d.2.a. to EPA.

After the close of the public comment period, the Department shall issue a final approval or disapproval of the ECP.

(e) <u>Prohibition</u>. Except as provided for in 310 CMR 7.19(3)(a), no emission reductions or any other actions taken at any facility or part of a facility will constitute implementation of RACT at that facility unless those emission reductions or other actions are part of an emission control plan approved by the Department.

(f) Additional requirements may be included in the emission control plan approval to assure that emissions from the unit(s) subject to RACT will not cause or contribute to a condition of air pollution or a violation of any other regulation. Such requirements include, but are not limited to, emissions limits on other air contaminants, and additional stack testing or emissions monitoring requirements.

(4) Large Boilers.

(a) <u>Applicability and NO_x RACT</u>. After May 31, 1995, any person owning, leasing, operating or controlling a boiler having an energy input capacity of 100,000,000 Btu per hour or greater, at a facility subject to 310 CMR 7.19, shall comply with the following NO_x emission standards in 310 CMR 7.19(4)(a), except as provided in 310 CMR 7.19(2)(b), 7.19(2)(c), 7.19(2)(f), 7.19(4)(b), 7.19(4)(c) and 7.19(4)(d).

- 1. For dry bottom boilers burning coal:
 - a. for tangential fired boilers, 0.38 pounds per million Btu; and
 - b. for face fired boilers, 0.45 pounds per million Btu.
- 2. For stoker-fired boilers burning other solid fuels, 0.33 pounds per million Btu.

3. For boilers with an energy input capacity greater than or equal to 250 million Btu per hour burning either oil or oil and gas (This includes burning the oil and gas simultaneously or at different times. Boilers approved to burn another fuel, such as coal, are subject to this limit only while burning only oil and/or gas and not the other fuel.):

- a. i. for tangential oil fired boilers, 0.25 pounds per million Btu;
 - ii. for tangential gas fired boilers, 0.20 pounds per million Btu; and

b. for face fired boilers, 0.28 pounds per million Btu.

4. For boilers with an energy input capacity greater than or equal to 100,000,000 Btu per hour and less than 250,000,000 Btu per hour burning either oil or oil and gas:

a. for boilers with a heat release rate less than or equal to 70,000 Btu/hours-ft³, 0.30 pounds per million Btu; and

b. for boilers with a heat release greater than 70,000 Btu/hour-ft³, 0.40.

5. For boilers burning only gas, 0.20 pounds per million Btu.

6. The averaging time for determining compliance with 310 CMR 7.19(4)(a) shall be one hour. Except that, for boilers using a continuous emissions monitoring system that satisfies the requirements of 310 CMR 7.19(13)(b) to determine compliance, compliance will be based on a calendar day average.

(b) <u>Applicability and NO_x RACT</u>. On or after two years from March 9, 2018, any person owning, leasing, operating or controlling a boiler having an energy input capacity of 100,000,000 Btu per hour or greater at a facility subject to 310 CMR 7.19 shall comply with the NO_x emission standards in 310 CMR 7.19(4)(b), except as provided in 310 CMR 7.19(1)(d), (2)(b), and (e).

- 1. For dry bottom boilers burning coal:
 - a. for tangential fired boilers, 0.12 pounds per million Btu; and
 - b. for face fired boilers, 0.12 pounds per million Btu.
- 2. For stoker-fired boilers burning other solid fuels, 0.33 pounds per million Btu.

3. For boilers with an energy input capacity greater than or equal to 250 million Btu per hour burning either oil or oil and gas (This includes burning the oil and gas simultaneously or at different times. Boilers approved to burn another fuel, such as coal, are subject to this limit only while burning only oil and/or gas and not the other fuel.):

- a. i. for tangential oil fired boilers, 0.15 pounds per million Btu; and
 - ii. for tangential gas fired boilers, 0.08 pounds per million Btu.
- b. for face fired boilers, 0.15 pounds per million Btu.

4. For boilers with an energy input capacity greater than or equal to 100,000,000 Btu per hour and less than 250,000,000 Btu per hour burning either oil or oil and gas:

- a. for boilers with a heat release rate less than or equal to 70,000 Btu/hours-ft³, 0.15 pounds per million Btu; and
- b. for boilers with a heat release greater than 70,000 Btu/hour-ft³, 0.15.
- 5. For boilers burning only gas, 0.06 pounds per million Btu.

6. The averaging time for determining compliance with 310 CMR 7.19(4)(b) shall be one hour. Except that, for boilers using a continuous emissions monitoring system that satisfies the requirements of 310 CMR 7.19(13)(b) to determine compliance, compliance will be based on either a calendar day average or calendar month basis when a facility demonstrates existing controls installed for purposes of 310 CMR 7.29 compliance relied on the longer averaging period.

(c) <u>Alternative NO_x RACT</u>. Any person owning, leasing, operating or controlling a boiler subject to 310 CMR 7.19(4)(a), may choose to have that boiler comply with 310 CMR 7.19(4)(c) instead of 310 CMR 7.19(4)(a).

1. After May 31, 1995, the maximum allowable daily NO_x emission standard, in pounds per million Btu, shall be equal to 0.6 times the worst NO_x emission rate. The worst NO_x emission rate shall be determined in accordance with a methodology specified by the Department for each fuel burned.

2. The Department will approve the boiler to comply with an alternative emission limitation contained in 310 CMR 7.19(4)(c)1. only if a demonstration is contained in the Emission Control Plan that the boiler cannot comply with the emission limitation contained in 310 CMR 7.19(4)(a) through use of available NO_x controls or NO_x ERCs. This may be demonstrated either through technical or economic infeasibility.

(d) Except as provided for under 310 CMR 7.19(2)(f), if more than one fuel is fired simultaneously or during the same hour (or day if an averaging time of 24 hours is used), the allowable NO_x emission standard shall be calculated according to the procedure contained in 310 CMR 7.19(15) using the emission standard from 310 CMR 7.19(4)(a) or (b), as applicable.

(e) <u>Testing, Monitoring, Recordkeeping, Reporting and Emission Control Plan.</u> Any facility subject to 310 CMR 7.19(4), shall comply with any applicable testing, monitoring, recordkeeping, and reporting requirements contained in 310 CMR 7.19(13) and shall submit an emission control plan as required by 310 CMR 7.19(3).

(f) <u>Carbon Monoxide (CO) Limitation</u>. Any facility subject to 310 CMR 7.19(4), shall not exceed a CO exhaust concentration of 200 ppmvd, corrected to 3% oxygen. This shall be based on a one hour averaging time. If a continuous emissions monitoring system is used for determining compliance, the averaging time shall be a calendar day. Not withstanding this CO emission standard, the Department may approve a higher CO emission standard for a large boiler as part of the emission control plan if the facility demonstrates that combustion conditions will not significantly deteriorate with the higher CO emission standard.

(5) <u>Medium-size Boilers</u>.

(a) <u>Applicability and NO_x RACT.</u> After May 31, 1995, any person owning, leasing, operating or controlling a boiler with an energy input capacity of 50,000,000 Btu per hour or greater and less than 100,000,000 Btu per hour at a facility subject to 310 CMR 7.19, shall comply with the following NO_x emission standard, except as provided for in 310 CMR 7.19(2)(b), (e) and (f).

1. For tangential or face-fired or stoker-fired boilers, burning solid fuel, 0.43 pounds per million Btu, based on a one hour average.

2. For tangential or face fired boilers, based on a one hour average.

a. burning gas only, 0.1 pounds per million Btu.

b. burning distillate oil or oil and gas (This includes burning the oil and gas simultaneously or at different times. Boilers approved to burn another fuel such as coal are subject to this limit while only burning oil and/or gas and not coal.) 0.12 pounds per million Btu.

c. burning residual oil,

i. 0.3 pounds per million Btu burning residual oil or residual oil and gas (This includes burning the oil and gas simultaneously or at different times. Boilers approved to burn another fuel such as coal are subject to this limit while burning only oil and/or gas and not coal.), or

ii. recirculate at least 15% of the flue gas and maintain flue gas oxygen concentration at 3% at the boiler exit. The O2 level should not be decreased beyond the point that the CO concentration increases beyond 130 ppmvd, corrected to 3% O2.

3. For boilers using a continuous emissions monitoring system that satisfies the requirements of 310 CMR 7.19(13)(b) to determine compliance, compliance will be based on a calendar day average.

(b) <u>Cofiring Fuels</u>. Except as provided for under 310 CMR 7.19(2)(f), if more than one fuel is fired simultaneously or during the same hour (or day if an averaging time of 24 hours is used), the allowable NO_x emissions standard shall be calculated according to the procedure contained in 310 CMR 7.19(15).

(c) <u>Testing, Monitoring, Recordkeeping, Reporting and Emission Control Plan</u>. Any facility subject to 310 CMR 7.19(5), shall comply with all applicable testing, monitoring, recordkeeping, and reporting requirements contained in 310 CMR 7.19(13) and shall submit an emission control plan as required by 310 CMR 7.19(3).

(d) <u>Carbon Monoxide (CO) Limitation.</u> Any facility subject to 310 CMR 7.19(5), shall not exceed a CO exhaust concentration of 200 ppmvd, corrected to 3% oxygen. This shall be based on a one hour averaging time. If a continuous emissions monitoring system is used for determining compliance, the averaging time shall be a calendar day. Notwithstanding this CO emission standard, the Department may approve a higher CO emission standard for a medium-size boiler as part of the emission control plan if the facility demonstrates that combustion conditions will not significantly deteriorate with the higher CO emission standard.

(6) Small Boilers.

(a) <u>Applicability and NO_x RACT</u> After March 15, 1995, any person owning, leasing, operating or controlling a boiler, with an energy input capacity of less than 50,000,000 Btu per hour and equal to or greater than 20,000,000 Btu per hour or with an energy input capacity less than 20,000,000 Btu per hour with potential emissions greater than 50 TPY of NO_x, at a facility subject to 310 CMR 7.19, shall tune the boiler annually according to the following procedure (tuneup procedure based on *Combustion Efficiency Optimization Manual for Operators of Oil and Gas Fired Boilers* (EPA 340/1-83-023)):

1. Operate the boiler at a firing rate most typical of normal operation. If the boiler experiences significant load variations during normal operation, operate it at its average firing rate.

2. At this firing rate record stack gas temperature, oxygen concentration, and CO concentration (for gaseous fuels) or smoke-spot number (For liquid fuels, the smoke spot number can be determined with ASTM Test Method D-2156 (Bacharach or equivalent)) and observe flame conditions after boiler operation stabilizes at the firing rate selected. If the excess oxygen in the stack gas is at the lower end of the range of typical minimum values (typical minimum oxygen levels for boilers at high firing rates are: for natural gas 0.5-3.0%; for liquid fuels 2.0-4.0%. The O₂ level should be reduced below this range with caution). If the CO emissions are low and there is no smoke, the boiler is probably operating at near optimum efficiency at this particular firing rate. However, complete the remaining portion of this procedure at 310 CMR 7.19(6)(a)3. through 10. to determine whether still lower oxygen levels are practical.

3. Increase combustion air flow to the boiler until stack gas oxygen levels increase by 1 to 2% over the level measured in 310 CMR 7.19(6)(a)2. As in 310 CMR 7.19(6)(a)2., record the stack gas temperature, CO concentration (for gaseous fuels) and smoke-spot number (for liquid fuels), and observe flame conditions for these higher oxygen levels after boiler operation stabilizes.

4. Decrease combustion air flow until the stack gas oxygen concentration is at the level measured in 310 CMR 7.19(6)(a)2. From this level gradually reduce the combustion air flow, in small increments. After each increment, record the stack gas temperature, oxygen concentration, CO concentration (for gaseous fuels) and smoke-spot number (for liquid fuels). Also observe the flame and record any changes in its condition.

- Continue to reduce combustion air flow stepwise, until one of these limits is reached:

 Unacceptable flame conditions such as flame impingement on furnace walls or burner parts, excessive flame carryover, or flame instability.
 - b. Stack gas CO concentrations greater than 400 ppm for gaseous fuels.
 - c. Smoking at the stack for liquid fuels.

d. Equipment-related limitation - such as low windbox/furnace pressure differential, built in air-flow limits, etc.

6. Develop an O_2/CO curve (for gaseous fuels) or O_2 /smoke curve (for liquid fuels) similar to those shown in figures 310 CMR 7.19(6)-1 and 2 using the excess oxygen and CO or smoke-spot number data obtained at each combustion air flow setting.

7. From the curves prepared in 310 CMR 7.19(6)(a)6., find the stack gas oxygen levels where the CO emission or smoke spot number equals the following values:

Fuel	Measurement	Value
Gaseous #1 & #2 oils #4 oil #5 oil #6 oil	CO emissions smoke-spot number smoke-spot number smoke-spot number smoke-spot number	400 ppm number 1 number 2 number 3 number 4

The above conditions are referred to as CO or smoke threshold, or as the minimum excess oxygen level. Compare this minimum value of excess oxygen to the expected value provided by the combustion unit manufacturer. If the minimum level found is substantially higher than the value provided by the combustion unit manufacturer, the owner or operator should improve fuel and air mixing, thereby allowing operation with less air.

8. Add 0.5 to 2.0% to the minimum excess oxygen level found in 310 CMR 7.19(6)(a)7. and reset burner controls to operate automatically at this higher stack gas oxygen level. This margin above the minimum oxygen level accounts for fuel variations, variations in atmospheric conditions, load changes, and non-repeatability or play in automatic controls.

9. If the load of the combustion unit varies significantly during normal operation, repeat 310 CMR 7.19(6)(a)1. through 8. for firing rates that represent the upper and lower limits of the range of the load. Because control adjustment at one firing rate may effect conditions at other firing rates, it may not be possible to establish the optimum excess oxygen level at all firing rates. If this is the case, choose the burner control settings that give best performance over the range of firing rates. If one firing rate predominates, settings should optimize conditions at that rate.

10. Verify that the new settings can accommodate the sudden changes that may occur in daily operation without adverse effects. Do this by increasing and decreasing load rapidly while observing the flame and stack. If any of the conditions in 310 CMR 7.19(6)(a)5. result, reset the combustion controls to provide a slightly higher level of excess oxygen at the affected firing rates. Next, verify these new settings in a similar fashion. Then make sure that the final control settings are recorded at steady-state operating conditions for future reference.

11. Alternatively, another tune-up procedure, such as found in MACT subpart JJJJJJ [40 CFR 63.11223(b) and Table 2] or MACT Subpart DDDDD [40 CFR 63.7540(a)(10) and Table 3], may be used if approved in writing by the Department and EPA.

12. Nothing in any tune-up procedure shall be construed to require any act or omission that would result in unsafe conditions or would be in violation of any regulation or requirement established by National Fire Prevention Association, Federal Occupational Safety and Health Administration, or other applicable regulations or requirements.

(b) <u>Testing, Recordkeeping, and Notification</u>. Any person subject to 310 CMR 7.19(6) shall:

1. provide written notification to the Department by January 1, 1995 that the facility is subject to, and will comply with 310 CMR 7.19(6).

2. maintain records for five years of the tune-up, including:

- a. date of tune-up;
- b. person(s) conducting tune-up;
- c. O_2/CO (for gas) or O_2 /smoke spot (for oil) correlations obtained during tune-up;
- d. boiler/burner manufacturer's recommended set-points;
- e. final boiler set-points as result of tune-up;
- f. normal boiler/burner maintenance records.

g. at least once per month verify that the settings determined during the tune-up have not changed.

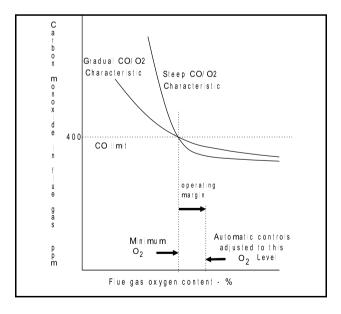


Figure 310 CMR 7.19(6) - 1

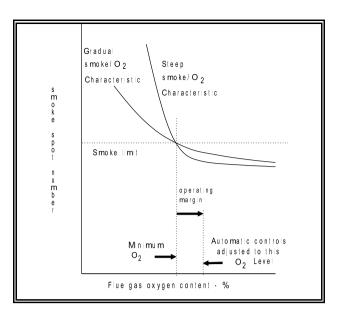


Figure 310 CMR 7.19(6) - 2

(7) <u>Stationary Combustion Turbines</u>.

(a) <u>Applicability and NO_x RACT</u>. After May 31, 1995, any person owning, leasing, operating or controlling any stationary combustion turbine having an energy input capacity of 25,000,000 Btu per hour or greater at a facility subject to 310 CMR 7.19, shall comply with the following NO_x and CO emission standards in 310 CMR 7.19(7)(a), except as provided for in 310 CMR 7.19(2)(b), 7.19(2)(e), and 7.19(2)(f).

- 1. For combined cycle stationary combustion turbines, based on a one-hour average:
 - a. 42 ppmvd NO_x , corrected to 15% O_2 , when firing gas, and
 - b. 65 ppmvd NO_x , corrected to 15% O_2 , when firing oil, and
 - c. 50 ppmvd CO, corrected to 15% O₂, when firing oil and/or gas.
- 2. For simple cycle stationary combustion turbines, based on a one hour average:
 - a. 65 ppmvd NO_x , corrected to 15% O_2 , when firing gas, and
 - b. 100 ppmvd NO_x , corrected to 15% O_2 , when firing oil, and
 - c. 100 ppmvd CO, corrected to 15% O₂, when firing oil and/or gas.

3. For stationary combustion turbines using a monitoring system that satisfies the requirements of 310 CMR 7.19(13)(b) to determine compliance, compliance will be based on a calendar day average.

4. Notwithstanding the CO emission standard stated in 310 CMR 7.19(7)(a)1.c. and 2.c., the Department may approve a higher CO emission standard for a stationary combustion turbine if it is demonstrated that combustion conditions will not significantly deteriorate with a higher CO emission standard.

(b) <u>Applicability and NO_x RACT</u>. On or after two years from March 9, 2018, any person owning, leasing, operating or controlling any stationary combustion turbine having an energy input capacity of 25,000,000 Btu per hour or greater at a facility subject to 310 CMR 7.19 shall comply with the NO_x and CO emission standards in 310 CMR 7.19(7)(b), except as provided in 310 CMR 7.19(1)(d)., 7.19(2)(b), and 7.19(2)(e).

- 1. For combined cycle stationary combustion turbines, based on a one-hour average:
 - a. 25 ppmvd NO_x , corrected to 15% O_2 , when firing gas, and
 - b. 42 ppmvd NO_x , corrected to 15% O_2 , when firing oil, and
 - c. 50 ppmvd CO, corrected to 15% O₂, when firing oil and/or gas.
- 2. For simple cycle stationary combustion turbines, based on a one hour average:
 - a. 40 ppmvd NO_x , corrected to 15% O_2 , when firing gas, and
 - b. 50 ppmvd NO_x , corrected to 15% O_2 , when firing oil, and
 - c. 100 ppmvd CO, corrected to 15% O₂, when firing oil and/or gas.

3. For stationary combustion turbines using a monitoring system that satisfies the requirements of 310 CMR 7.19(13)(b) to determine compliance, compliance will be based on a calendar day average.

(c) <u>Testing, Monitoring, Recordkeeping, Reporting and Emission Control Plan</u>. Any facility subject to 310 CMR 7.19(7), shall comply with all applicable testing, monitoring, recordkeeping, and reporting requirements contained in 310 CMR 7.19(13) and shall submit an emission control plan as required by 310 CMR 7.19(3).

(8) <u>Stationary Reciprocating Internal Combustion Engines.</u>

(a) <u>Applicability and NO_x RACT</u>. After May 31, 1995, any person owning, leasing, operating or controlling a reciprocating internal combustion engine having energy input capacity of 3,000,000 Btu per hour or greater at a facility subject to 310 CMR 7.19, is subject to 310 CMR 7.19(8) and shall comply with NO_x RACT as defined in 310 CMR 7.19(8)(c), (d) or (e) as applicable, except as provided for in 310 CMR 7.19(2)(b), 7.19(2)(e) and 7.19(2)(f).

(b) <u>Exemption</u>. An engine installed and operated in compliance with 310 CMR 7.02(8)(i), 310 CMR 7.03(10), or 310 CMR 7.26(42) is exempt from the requirements of 310 CMR 7.19(8).

(c) For a stationary reciprocating internal combustion engine that has operated 1000 hours or more during any consecutive 12-month period since January 1, 1990, but has not operated 1000 hours or more during any consecutive 12-month period after March 9, 2018, the NO_x emission standard shall be:

1. For rich burn, gas-fired reciprocating internal combustion engines, 1.5 grams per bhp-hr, based on a one hour average.

2. For lean burn, gas-fired reciprocating internal combustion engines, 3.0 grams per bhp-hr, based on a one hour average.

3. For lean burn, oil-fired or dual fuel reciprocating internal combustion engines, 9.0 grams per bhp-hr, based on a one hour average.

4. For stationary reciprocating internal combustion engine using a monitoring system that satisfies the requirements of 310 CMR 7.19(13)(b) to determine compliance, compliance will be based on a calendar day average.

(d) For a stationary reciprocating internal combustion engine that has operated 1000 hours or more during any consecutive 12-month period since March 9, 2018, the owner/operator of such engine shall have until two years after the 12-month consecutive period that exceeded the 1000 hours of operation to comply with the applicable NO_x emission standards below:

1. For rich burn, gas-fired reciprocating internal combustion engines, 1.5 grams per bhp-

hr, based on a one hour average.

2. For lean burn, gas-fired reciprocating internal combustion engines, 1.5 grams per bhp-hr, based on a one hour average.

3. For lean burn, oil-fired or dual fuel reciprocating internal combustion engines, 2.3 grams per bhp-hr, based on a one hour average.

4. For stationary reciprocating internal combustion engines using a monitoring system that satisfies the requirements of 310 CMR 7.19(13)(b) to determine compliance, compliance will be based on a calendar day average.

(e) For a stationary reciprocating internal combustion engine that has not operated 1000 hours or more during any consecutive 12 month period since January 1, 1990, the NO_x emission standard shall be:

1. the emission standard in 310 CMR 7.19(8)(c) or (d), as applicable; or, set and maintain the ignition timing of the engine four degrees retarded relative to standard timing; provided the ignition timing shall not be retarded beyond the point that:

a. the CO emission concentration increases by 100 ppmvd, corrected to 15% O2, or

b. the turbocharger speed is increased beyond the maximum operating speed recommended by the manufacturer, or

c. the exhaust port temperature increases beyond the manufacturer's recommended maximum operating temperature.

2. install and maintain an elapsed time meter to indicate, in cumulative hours, the elapsed engine operating time for the previous 12 months;

3. determine the hours of operation for each engine for the previous 12-month period on a monthly basis;

4. notify the Department if the operation exceeds 1000 hours for any consecutive 12month period, and the facility is subject to the emission standard in 310 CMR 7.19(8)(c) or (d), as applicable.

5. maintain records to certify that the ignition timing of the engine has been inspected and adjusted at least once every three years.

(f) <u>Testing, Monitoring, Recordkeeping, Reporting and Emission Control Plan</u>. Any facility subject to 310 CMR 7.19(8), shall comply with all applicable testing, monitoring, recordkeeping, and reporting requirements contained in 310 CMR 7.19(13) and shall submit an emission control plan as required by 310 CMR 7.19(3).

(9) Small Municipal Waste Combustor Units.

(a) <u>Applicability and NO_x RACT</u>. Any person owning, leasing, operating or controlling a small municipal waste combustor unit as defined in 310 CMR 7.08(2) with potential emissions of NO_x equal to or greater than 25 tons per year at a facility having potential emissions, before application of air pollution control equipment, greater than or equal to 50 tons per year of NO_x shall comply with 310 CMR 7.19(9).

1. Until the dates specified in 310 CMR 7.19(9)(a)2.a. and b., the NO_x emission standard for a municipal waste combustor unit subject to 310 CMR 7.19(9) is 0.6 pounds per million Btu, based on a one hour average, while burning municipal waste, except as provided for in 310 CMR 7.19(2)(b), (2)(e) and (2)(f). However, for any municipal waste combustor unit equipped with a continuous emissions monitoring system, the averaging time shall be based on a calendar day average.

2. Beginning on the dates specified in 310 CMR 7.19(9)(a)2.a. and b., the NO_x emission standard for a municipal waste combustor unit subject to 310 CMR 7.19(9) is 167 parts per million corrected to 7% oxygen by volume, based on a calendar day average, while burning municipal waste, except as provided for in 310 CMR 7.19(2)(b), (2)(e) and (2)(f).

a. For any person subject to 310 CMR 7.19(9) not submitting an emission control plan application as specified in 310 CMR 7.19(9)(b), the standard in 310 CMR 7.19(9)(a)1. is in effect until June 7, 2018 and the standard in 310 CMR 7.19(9)(a)2. is in effect beginning June 8, 2018.

b. For any person subject to 310 CMR 7.19(9) submitting an emission control plan application as specified in 310 CMR 7.19(9)(b), the standard in 310 CMR 7.19(9)(a)1. is in effect until one year after issuance of the Department approval and the standard in 310 CMR 7.19(9)(a)2. is in effect beginning one year and one day after issuance of the Department approval, but no later than March 10, 2020.

(b) <u>Testing, Monitoring, Recordkeeping Reporting and Emission Control Plan</u>. Any person subject to 310 CMR 7.19(9) shall either comply with the applicable testing, monitoring, recordkeeping, and reporting requirements contained in 310 CMR 7.19(13) or comply with the applicable testing, monitoring, recordkeeping, and reporting requirements contained in 310 CMR 7.08(2) and shall submit an emissions control plan as required by 310 CMR 7.19(3) or submit a notification to the Department no later than April 9, 2018 stating that the facility as currently equipped is in compliance with the requirements of 310 CMR 7.19(9). (c) <u>Ammonia</u>. No later than the dates specified in the approval issued by the Department under 310 CMR 7.19(2)(b) or (3)(a), any person subject to 310 CMR 7.19(9) utilizing ammonia or urea for NO_x control shall:

1. conduct ammonia optimization testing;

2. submit a report to the Department correlating NOx emissions and ammonia slip;

3. propose an ammonia emissions limit that the Department will review and may modify before incorporating in the unit's approval; and

4. if using an ammonia continuous emission monitoring system to demonstrate compliance, obtain, at a minimum, valid hourly averages based on at least two data points per hour, for at least 90% of the operating hours per calendar quarter and 95% of the operating hours per calendar year that the affected facility is combusting municipal solid waste.

((10) Reserved)

(11) <u>Glass Melting Furnaces</u>.

(a) <u>Applicability and NO_x RACT</u>. After May 31, 1995, any person owning, leasing, operating or controlling a container glass melting furnace having a maximum production rate of 14 tons of glass removed from the furnace per day or greater, at a facility subject to 310 CMR 7.19, shall comply with an emission standard of 5.3 pounds of NO_x per ton of glass removed from the furnace based on a calendar day average, except as provided for in 310 CMR 7.19(2)(b), (e) and (f).

(b) <u>Testing, Monitoring, Recordkeeping, Reporting and Emission Control Plan</u> Any facility subject to 310 CMR 7.19(11), shall comply with any applicable testing, monitoring, recordkeeping, and reporting requirements contained in 310 CMR 7.19(13) and shall submit an emission control plan as required by 310 CMR 7.19(3).

(12) <u>Miscellaneous RACT</u>.

(a) <u>Applicability</u>. Any emissions unit with potential emissions of NO_x equal to or greater than 25 tons per year at a facility having potential emissions, before application of air pollution control equipment, greater than or equal to 50 tons per year of NO_x is subject to 310 CMR 7.19(12) and shall comply with the source specific RACT for that emissions unit.

(b) <u>Emissions Exemptions</u>.

1. RACT is not required to be defined under 310 CMR 7.19(12) for any emissions unit that since January 1, 1990 has been approved as Best Available Control Technology or Lowest Achievable Emission Rate in an approval containing specific emission limits or work practice standards issued under a federally enforceable regulation.

2. RACT is not required to be defined under 310 CMR 7.19(12) for any emissions unit either subject to a RACT standard under 310 CMR 7.19(4), (5), (6), (7), (8), or (11) or exempt under 310 CMR 7.19(1)(c)2. through 8.

(c) <u>NO_x Reasonably Available Control Technology Requirements</u>. After May 31, 1995, no person subject to the requirements of 310 CMR 7.19(12) shall cause, suffer, allow or permit emissions from the facility in excess of an emission rate achievable through the implementation of reasonably available control technology as required in an emission control plan approved under 310 CMR 7.19(3).

(d) <u>Emission Control Plan Requirements</u>. Any person subject to 310 CMR 7.19(12)(a) must submit an emission control plan as required by 310 CMR 7.19(3) by April 1, 1994 to demonstrate how compliance will be achieved. The emission control plan and the plan approval issued by the Department under 310 CMR 7.19(3) must also be approved by the EPA as a Massachusetts SIP revision.

(e) <u>Testing, Monitoring, Recordkeeping, Reporting and Emission Control Plan</u>. Any facility subject to 310 CMR 7.19(12), shall comply with any applicable testing, monitoring, recordkeeping, and reporting requirements contained in 310 CMR 7.19(13) and shall submit an emission control plan as required by 310 CMR 7.19(3).

(13) Testing, Monitoring, Recordkeeping, and Reporting Requirements.

(a) <u>Applicability</u>. Any person subject to 310 CMR 7.19(2)(b), (4), (5), (7), (8), (9), (10), (11), (12) or (14) shall comply with 310 CMR 7.19(13). For any variance of a requirement under 310 CMR 7.19(13), the variance must be made federally enforceable. A variance from the requirement will be given only where it will not adversely impact the ability to monitor emissions. Regardless of the Department's determination in the emission control plan, any facility that is subject to 40 CFR Parts 60 and 75 must still comply with those requirements.

1. For boilers with an energy input capacity greater than or equal to 250,000,000 Btu per hour, compliance with the NO_x and CO emission standards shall be demonstrated with a continuous emissions monitoring system (CEMS) as specified in 310 CMR 7.19(13)(b), and recordkeeping and reporting as specified in 310 CMR 7.19(13)(d).

2. For boilers with an energy input capacity equal to or greater than 100,000,000 Btu per hour and less than 250,000,000 Btu per hour, compliance with the NO_x and CO emission standards shall be demonstrated by performing an annual stack test as specified in 310 CMR 7.19(13)(c), and recordkeeping and reporting as specified in 310 CMR 7.19(13)(d). The annual stack test requirement is waived for boilers equipped with a CEMS satisfying the requirements of 310 CMR 7.19(13)(b).

3. For multiple emission units that are complying with 310 CMR 7.19(14), compliance with the CO (as applicable) and NO_x emission standards shall be demonstrated:

a. with a continuous emissions monitoring system (CEMS) as specified in 310 CMR 7.19(13)(b), or

b. for emission unit(s) not required by 310 CMR 7.19(13)(a) to use CEMS to determine compliance, by performing an annual stack test as specified in 310 CMR 7.19(13)(c). The emission rate from the stack tested emission unit shall be adjusted by a compliance assurance multiplier determined by the Department within the range of 1.1-1.25.

c. for emission unit(s) not generating surplus emission reductions to be used by another emission unit in the average, compliance may alternatively be determined by the procedure contained in 310 CMR 7.19(13)(a) for similar emission units (*e.g.*, a stationary combustion turbine burning the same fuel with the same energy input) that are not emissions averaging to determine compliance.

4. a. For boilers with an energy input capacity equal to or greater than 50,000,000 Btu per hour and less than 100,000,000 Btu per hour, compliance with the NO_x and CO emission standards shall be demonstrated by performing an initial stack test as specified in 310 CMR 7.19(13)(c). The recordkeeping in 310 CMR 7.19(13)(d) shall apply.

b. For boilers complying with the requirement on allowable oxygen level, an oxygen analyzer and recorder shall be utilized. The recordkeeping in 310 CMR 7.19(13)(d) shall apply.

5. For combined cycle combustion turbines with an energy input capacity greater than or equal to 100,000,000 Btu per hour, compliance with the NO_x and CO emission standards shall be demonstrated with a continuous emission monitoring system (CEMS) as specified in 310 CMR 7.19(13)(b) and recordkeeping as specified in 310 CMR 7.19(13)(d).

6. For combined cycle combustion turbines with an energy input capacity less than 100,000,000 Btu per hour, compliance with the NO_x and CO emission standards shall be demonstrated by performing an annual stack test as specified in 310 CMR 7.19(13)(c). The annual stack test requirement is waived for combined cycle combustion turbines equipped with a monitoring system satisfying the requirements of 310 CMR 7.19(13)(b). 7. For simple cycle combustion turbines, compliance with the NO_x and CO emission standards shall be demonstrated by performing an annual stack test as specified in 310 CMR 7.19(13)(c).

8. For stationary reciprocating internal combustion engines with an energy input capacity greater than or equal to 30,000,000 Btu per hour, compliance with the NO_x emission standards shall be demonstrated with a continuous emissions monitoring system (CEMS) as specified in 310 CMR 7.19(13)(b) and recordkeeping as specified in 310 CMR 7.19(13)(d). For engines operating less than 1000 hours per year in this size range compliance shall be determined by recordkeeping as required in 310 CMR 7.19(8)(e).

9. For stationary reciprocating internal combustion engines with an energy input capacity less than 30,000,000 Btu per hour and operating 1000 hours or more in any consecutive 12 month period, compliance with the applicable emission standard shall be demonstrated by performing an initial stack test as as specified in 310 CMR 7.19(13)(c), and recordkeeping as specified in 310 CMR 7.19(13)(d). For engines operating less than 1000 hours per year in this size range compliance shall be determined by recordkeeping as required in 310 CMR 7.19(8)(e).

10. For glass melting furnaces, compliance with the applicable emission standard shall be demonstrated by performing an annual stack test as specified in 310 CMR 7.19(13)(c), and recordkeeping and reporting as specified in 310 CMR 7.19(13)(d). The annual stack test requirement is waived for glass melting furnaces equipped with a CEMS satisfying the requirements of 310 CMR 7.19(13)(b).

11. For emission units subject to 310 CMR 7.19(2)(b) or 7.19(12), compliance with the applicable emission standard shall be demonstrated through a combination of continuous emissions monitoring, stack testing and/or recordkeeping specified in the approved emission control plan.

12. The Department or EPA may require compliance stack testing beyond that listed above.

13. For municipal waste combustors with potential emissions greater than 25 tons per year of NO_x , compliance with the applicable NO_x emissions standard shall be demonstrated by performing an annual stack test as specified in 310 CMR 7.19(13)(c), and recordkeeping and reporting as specified in 310 CMR 7.19(13)(d). However, for any municipal waste combustor unit that in May 1995 is equipped with a continuous emissions monitoring system (CEMS), compliance shall be demonstrated with a CEMS as specified in 310 CMR 7.19(13)(d).

(b) Continuous Emissions Monitoring Systems (CEMS). Any person required to monitor NOx emissions (*i.e.*, through NOx concentrations and the associated diluent concentrations) pursuant to 40 CFR 75, shall use the procedures contained either therein or in 310 CMR 7.19(13)(b)1. through (b)14. to gather and analyze data and provide quality assurance and quality control in order to determine compliance with 310 CMR 7.19, except that missing data routines and bias adjustment factors do not need to be applied. Any person subject to 40 CFR 75 for NOx also may monitor CO emissions using 40 CFR 75 procedures to gather and analyze data and provide quality assurance and quality control in order to determine compliance with 310 CMR 7.19, except that CO quality assurance performance specifications shall comply with 40 CFR 60: Appendix B as an alternative to compliance with 310 CMR 7.19(13)(b)1. through (b)14. Any person subject to 310 CMR 7.19(13)(b) shall comply with 310 CMR 7.19(13)(b)9., 10., 11., and 12. for data averaging, hourly data validity, and data capture requirements. Any person operating a CEMS subject to 40 CFR 75 for NO_x may conduct Quarterly Quality Assurance activities for CO in accordance with the same 40 CFR 75 timelines as NO_x. Any person subject to 310 CMR 7.19(13)(b)1. through (b)14., but not 40 CFR 75, may choose to use 40 CFR 75 procedures to gather and analyze data and provide quality assurance and quality control for NOx and CO emissions (*i.e.*, pollutant and diluents) in accordance with 40 CFR 75 as described above; however, the CEMS first must be re-certified in accordance with 40 CFR 75 for NO_x and CO, except that CO quality assurance performance specifications in 40 CFR 60: Appendix B shall apply. Any person demonstrating compliance with 310 CMR 7.19 for emission units using CEMS who is not subject to or choosing to follow 40 CFR 75 shall:

1. for any emission unit either already having a CEMS in place or having a CEMS being procured or installed, submit a preliminary CEMS monitoring plan for Department approval as part of the emission control plan required in 310 CMR 7.19(3), unless the CEMS is already certified and approved by the Department or EPA;

2. for any emission unit not covered under 310 CMR 7.19(13)(b)1., submit a preliminary CEMS monitoring plan for Department approval at least 180 days prior to equipment installation;

3. include the following information in the preliminary CEMS monitoring plan: source identification, source description, control technology description, the applicable regulations, the type of monitor, a monitoring system flow diagram, a description of the data handling system, and a sample calculation demonstrating compliance with the emission limits using conversion factors from 40 CFR 60 or approved by the Department and EPA;

4. submit a CEMS certification protocol at least 90 days prior to certification testing for the CEMS, and submit any proposed adjustment to the certification testing at least seven days in advance;

5. include the following information in the certification protocol, which must be found acceptable by the Department: the location of and specifications for each instrument or device, as well as procedures for calibration, operation, data evaluation and data reporting;

6. install, calibrate, maintain and operate a CEMS for measuring NO_x , and CO, and either O^2 or CO_2 at locations approved in the Department's approval of the CEMS certification protocol and record the output of each CEMS;

7. submit a certification report within 60 days of the completion of the certification test for review and written Department approval;

8. certify each CEMS in accordance with the performance specifications contained in 40 CFR 60: *Appendix B* and quality assurance and quality control procedures contained in 40 CFR 60: *Appendix F* and continue to comply with the requirements of 40 CFR 60 *Appendix F*;

9. calculate a calendar month average from each operating day average within the applicable month; an operating day must consist of at least four operating hours, including startup and shutdown time;

10. calculate a calendar day average for each operating day from a block hourly average for each hour the emissions unit is operating;

11. calculate a block hourly average from at least three data points, generated by a CEMS at 15 minute intervals over each one-hour period or in accordance with 40 CFR 60.13(h)(2);

12. operate each continuous emission monitoring system at all times that the emissions unit(s) is operating except for periods of CEMS calibrations checks, zero span adjustment, and preventive maintenance as described in the preliminary monitoring plan submitted to the Department and as determined during certification. Notwithstanding such exceptions, in all cases obtain valid data for at least 75% of the hours per operating day, 75% of the operating days per month, and 95% of the hours per quarter during which the emission unit is operating;

13. use only valid data to calculate the emissions rate averages using conversion factors from 40 CFR 60 or approved by the Department and EPA; and

14. Any person required to utilize a monitoring system to determine compliance of a stationary reciprocating engine or stationary combustion turbine with the applicable NO_x emissions standard may monitor process or control device parameters provided it is demonstrated to the Department, and the Department approves in writing, that the parametric monitoring system (PMS) provides an equivalent degree assurance of compliance with the emissions standard. Alternatively, the Department or EPA may approve a predictive emission monitoring system that meets EPA performance specification PS-16. The Department or EPA may require any conditions it deems necessary to assure continuous compliance.

(c) <u>Stack Testing</u> Any person required to demonstrate compliance with a NO_x emission standard contained in 310 CMR 7.19 by stack testing shall comply with 310 CMR 7.19(13)(c). That person shall:

1. submit a pretest protocol for the required emission test for review and Department approval at least 60 days prior to the anticipated date of testing;

2. include in the pretest protocol, a description of sampling point locations, sampling equipment, sampling and analytical procedures, and the operating conditions for the required testing;

 conduct compliance stack testing in accordance with procedures set forth in Appendix A of 40 CFR Part 60 or another method approved by the Department and EPA;
 perform the initial compliance stack test on the emission unit before August 1, 1995 for existing emission units, or within 90 days of continuous operation for new emission units to demonstrate compliance;

5. perform the annual compliance test, where annual compliance stack testing is required either by 310 CMR 7.00 or in the approved emission control plan, on the emission unit prior to October 1st of each year beginning 1995;

6. submit the emission test report for the review and written Department approval within 60 days of the completion of the compliance stack testing.

(d) <u>Recordkeeping and Reporting</u>. Any person required to demonstrate compliance with 310 CMR 7.19 by recordkeeping and reporting shall comply with 310 CMR 7.19(13)(d). That person:

1. shall maintain a record of all measurements, performance evaluations, calibration checks, and maintenance or adjustments for each continuous emission monitor;

2. shall submit to the Department's regional office by the 30th day of April, July, October, and January of each calendar year, a report showing any excess emissions as measured by a CEMS within the previous calendar quarter (January-March, April-June, *etc.*) and shall include:

a. the date and time of commencement and completion of each period of excess emissions and the magnitude of the excess emissions for each hour;

b. identification of the suspected reason for the excess emissions and any corrective action taken;

c. the date and time that any CEMS stopped collecting valid data and when it started to collect valid data again, except for zero and span checks; and

d. the nature and date of system repairs; or

In the event none of the above items have occurred such information shall be stated in the report; or

3. shall measure and record for each unit on a daily basis: type fuel(s) burned each day, heat content of each fuel, the total heating value of the fuel consumed for each day, the actual emission rate (for emissions units demonstrating compliance with CEMS), and the allowable emission rate. For units complying with 310 CMR 7.19(14), daily records should also include a summation of these values for all units included in the average, as well as any other data needed to demonstrate compliance.

4. shall submit to the Department the necessary information (calculations and data) to demonstrate an applicable emission unit has an annual capacity factor of less than 10% in accordance with 310 CMR 7.19(1)(d). This documentation shall be provided to the Department in the first quarter of each year (*i.e.*, no later than March 31^{st}), and may be included in the fourth quarter RACT quarterly report (due January 30^{th}) if the facility operates other RACT sources.

5. shall obtain a certification from the fuel supplier for each shipment of residual oil that includes the following information:

a. the name of the oil supplier;

b. the nitrogen content of each oil shipment (acceptable test methods for determining nitrogen content of the oil are ASTM methods D3228 and D4629 or any other method approved by the Department and EPA);

c. the location where the sample was drawn for analysis to determine the nitrogen content of the oil, specifically including whether the oil was sampled as delivered to the affected facility or whether the sample was drawn from oil in storage at the oil supplier's or oil refiner's facility or another location;

6. may, as an alternative to the fuel supplier certification required in 310 CMR 7.19(13)(d)5, elect to sample and analyze the residual oil immediately after the fuel tank is filled and before any oil is combusted for each new shipment according to methods approved by the Department;

7. shall maintain copies of all fuel supplier certifications or fuel oil analyses on site for a period of five years;

8. shall maintain all records required by 310 CMR 7.19(13)(d) for a period of five years in a permanently bound log book or any other form acceptable to the Department including computer retained and generated data; and

9. shall submit compliance records within ten days of written request by the Department or EPA.

(14) Averaging for Multiple Emission Units to Achieve Compliance.

(a) <u>Applicability and RACT Requirement.</u> After May 31, 1995, any person operating or controlling more than one emission unit subject to a NO_x emission standard contained in 310 CMR 7.19(4), (5), (7), (8) or (12) may comply with 310 CMR 7.19 by emissions averaging, provided the requirements of 310 CMR 7.19(14) and 7.00 *Appendix* B(4) are met. (b) <u>Stationary Reciprocating Internal Combustion Engines.</u> For any stationary reciprocating internal combustion engine(s) included in the average with boiler(s), the emissions rate and emissions standard for the stationary reciprocating internal combustion engine(s) shall be converted to pounds per million according to the following equation:

 $ES_{p/mmBtu} = 0.866 \text{ x } ES_{gm/bhp-hr} \text{ x } Eff$

Where:

ES_{p/mmbtu} - Emission standard expressed in pounds per million Btu.

ES_{em/bhp-hr} - Emission standard expressed in grams per brake horse-power hour.

Eff=Thermal efficiency; the ratio of the electrical/mechanical output energy to the energy input.

The thermal efficiency must be demonstrated to the Department's satisfaction. There shall be either a direct or indirect readout of the electrical/mechanical energy output. If a stationary combustion turbine and a stationary reciprocating internal combustion engine are to be averaged, the conversion factors contained in 310 CMR 7.19(14)(b) and (c) shall both be used.

(c) <u>Stationary Combustion Turbines</u>. If stationary combustion turbines are to be averaged with boilers, the emissions rate in ppmvd at $15\% O_2$ shall be converted to units of pounds per million Btu according to the procedure contained in 40 CFR 60.45.

For natural gas or propane:

pounds per million Btu = (ppmvd@15%O₂) x (0.00369) For oil:

pounds per million Btu = $(ppmvd@15\%O_2) \times (0.00389)$

If a stationary combustion turbine and a stationary reciprocating internal combustion engine are to be averaged, the conversion factors contained in 310 CMR 7.19(14)(b) and (c) shall both be used.

(d) <u>Testing, Monitoring, Recordkeeping, Reporting and Emission Control Plan</u>. Any facility subject to 310 CMR 7.19(14) shall comply with the applicable testing, monitoring, recordkeeping, and reporting requirements contained in 310 CMR 7.19(13)(b), (c) and (d) and shall submit an emission control plan as required by 310 CMR 7.19(3).

(15) <u>Cofiring fuels</u>. When different fuels are either burned simultaneously in any combination, or during the same hour (or day if a 24 hour averaging time is used), the applicable emission standard (*e.g.* in pounds per million Btu) is determined by proration using the following formula:

$$PS_{NOX} = \frac{(HI_1)x(ES_1) + (HI_2)x(ES_2) \dots + (HI_N)x(ES_N)}{HI_1 + HI_2 \dots + HI_N}$$

PS_{NOx} is the prorated standard for nitrogen oxides when burning different fuels simultaneously, in pounds per million Btu heat input derived from all fuels fired.

 HI_1 is the heat input for fuel 1

$$ES_1$$
 is the emissions standard for fuel 1

N is the total number of fuels burned either simultaneously or on that day.

7.24: U Organic Material Storage and Distribution

(1) <u>Organic Material Storage Tanks</u>. No person who owns, leases, operates or controls a storage tank with a capacity equal to or greater than 40,000 gallons, into which organic material having a vapor pressure of 1.5 pounds per square inch absolute or greater under actual storage conditions, is placed, stored, or held shall store, hold or otherwise transfer the organic material in the storage tank unless:

(a) each tank is equipped with a submerged fill pipe; and,

(b) each tank not equipped with an external floating roof (see 310 CMR 7.24(1)(c)) is equipped with one of the following control devices:

1. a pressure tank system which maintains pressure at all times so as to prevent organic material loss to the atmosphere; or,

2. a vapor recovery system which collects all of the organic vapors emitted from the tank, and a vapor control system which reduces emissions of vapors to the atmosphere by at least 95% over every three hour period; or

3. if the tank does not store organic material with a true vapor pressure greater than 11.0 psia under actual storage conditions, then a fixed roof and a floating roof consisting of a pontoon, double deck, or internal floating roof which rests on the surface of the liquid contents and is equipped with a closure seal, or seals, to close the space between the roof edge and tank wall, and tank gauging and sampling devices which are gas tight except when in use; or,

4. any other equipment equal to or greater in efficiency than listed in 310 CMR 7.24(1)(b)2. and approved by the Department and EPA; and

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

(PAGES 250.57 THROUGH 250.60 ARE <u>RESERVED</u> FOR FUTURE USE.)

(c) on or after November 1, 1984, each external floating roof tank is equipped with an external floating roof of a pontoon, double deck, or external floating cover design, which rests on the surface of the liquid contents; and is fitted with a primary seal and a continuous secondary seal which seals the space between the edge of the floating roof and the tank wall; and stores organic material which has a vapor pressure less than 11.0 pounds per square inch absolute under actual storage conditions; and all tank gauging or sampling devices are gas tight except when in use; and,

(d) each of the seal(s) required by 310 CMR 7.24(1)(b)3. and 310 CMR 7.24(1)(c) meet the following requirements, where applicable:

there are no visible holes, tears, or other openings in the seal(s) or seal fabric; and,
 the seal(s) is intact and uniformly in place around the circumference of the floating roof between the floating roof and the tank wall; and,

3. for vapor mounted primary seals on any external floating roof tank, the accumulated area of gaps between the secondary seal and the tank wall which exceed 0.32 cm ($\frac{1}{8}$ in.) in width do not exceed 21.2 square cm per meter of tank diameter (1.0 square in per ft of tank diameter), as determined by 310 CMR 7.24(1)(k); and

4. measurement of the gap in the secondary seal is made annually, and such measurement complies with 310 CMR 7.24(1)(d)3.; and,

5. a visual inspection of the secondary closure seal is conducted semi-annually; and,

6. an inspection of internal floating roofs is conducted through the roof hatches monthly; and,

7. an inspection of cover and seal for internal floating roofs is conducted whenever the tank is emptied for nonoperational reasons or once every ten years whichever is sooner; and,

(e) all openings in a floating roof, except for automatic bleeder vents, rim space vents, and leg sleeves, are:

1. equipped with covers, seals, or lids which are kept closed except when the openings are in actual use; and,

2. equipped with projections into tank which remain below-the-liquid surface at all times; and

(f) automatic bleeder vents are kept closed except when the roof is being floated off of, or being landed on, the roof leg supports; and,

(g) rim vents are set to open when the roof is being floated off the leg supports, or at the manufacture recommended setting; and,

(h) emergency roof drains are provided with slotted membrane fabric covers or equivalent covers which cover at least 90% of the area of the opening; and,

(i) <u>Recordkeeping and Reporting</u>. for any tank with a capacity of 40,000 gallons or more which contains an organic liquid with a true vapor pressure greater than 1.5 psia, records are prepared, maintained and kept onsite for a minimum of two years: of the average monthly storage temperature; of the true vapor pressure, monthly throughput and type of organic material stored; of any inspections or tests conducted under 310 CMR 7.24(1)(d)4. through 7.; of any transfers made; and of any maintenance of the vapor processing system; and,

(j) for any tank with a capacity in excess of 40,000 gallons which is equipped with an external floating roof and which contains any organic material with a vapor pressure greater than 1.0 psia but less than 1.5 psia under actual storage conditions, records are maintained and kept for a minimum of two years; of the average monthly storage temperature and the type of liquid stored and its vapor pressure; and

(k) the total area of gaps under 310 CMR 7.24(1)(d)3. is determined by physically measuring the length and width of all gaps around the entire circumference of the secondary seal in each place where a ¹/₈ in. uniform diameter probe passes freely (without forcing or binding against the seal) between the seal and the tank wall, and summing the area of the individual gaps; any person who proposes to conduct this test shall notify the Department at least 30 days before the test so the Department may, at its option, observe the test.

(1) 310 CMR 7.24(1)(a) through 310 CMR 7.24(1)(k) do not apply to petroleum liquid storage tanks which are used to store waxy, heavy pour crude oil, or which have a capacity less than 416,000 gallons and are used to store produced crude oil and condensate prior to lease custody transfer.

(2) <u>Bulk Terminals and Bulk Plants</u>.

(a) U Bulk Terminals No person who owns, leases, operates or controls a bulk terminal shall cause, suffer, allow or permit the transfer into a tank truck, trailer or other contrivance of any organic material with a vapor pressure of 1.5 psia or greater under actual storage conditions unless:

1. each loading rack at the bulk terminal is equipped with a vapor collection and disposal system, which has been installed and is maintained and operated in accordance with the operating instructions of the manufacturer; and,

2. any vapor discharged during transfer of the organic material is collected and disposed of by the vapor collection and disposal system; and,

3. the amount of organic material released to the ambient air is less then 80 milligrams per liter of liquid loaded or unloaded over a six hour period, as determined by the reference method and test procedures found in Title 40 CFR 60.503(c) and 60.503(d); and,

4. any transfer of organic material takes place through a submerged fill pipe; and,

5. each loading rack at the bulk terminal is equipped with a loading arm which has a vapor collection adaptor designed, maintained and operated to force a vapor-tight seal between the adaptor and hatch; and,

6. each loading rack at the bulk terminal has a means to:

a. prevent any remaining liquid organic material from draining when the loading rack is disconnected from the hatch of any tank truck, trailer or other contrivances: or,

b. accomplish complete drainage of any remaining organic material before the loading rack is disconnected from the hatch of any tank truck, trailer or other contrivance; or,

c. if loading is effected through means other than a hatch, then all loading and vapor lines shall be equipped with fittings which make vapor-tight connections and which close automatically when disconnected.

(b) <u>CM, MB, MV, PV, SM</u>. Bulk Plants On or after July 1, 1980 no person who owns, leases, operates or controls a bulk plant shall cause, suffer, allow or permit the transfer into any tank truck, trailer or other contrivance of any organic material with a vapor pressure of 1.5 psia or greater under actual storage conditions unless:

- 1. the transfer of the organic material takes place through a submerged fill pipe; and,
- 2. any vapor discharged during transfer of the organic material is processed by vapor balance system.

(c) <u>B, Dukes County, Nantucket County. Bulk Plants</u>. On or after April 1, 1993 no person who owns, leases, operates or controls a bulk plant shall cause, suffer, allow or permit the transfer into a tank truck, trailer or other contrivance of any organic material with a vapor pressure of 1.5 psia or greater under actual storage conditions unless:

- 1. the transfer of the organic material takes place through a submerged fill pipe; and,
- 2. any vapor discharged during transfer of the organic material is processed by a vapor balance system.

(d) Any person who owns, leases, operates or controls a facility which is or becomes subject to 310 CMR 7.24(2)(a) through (c), shall only transfer organic material with a vapor pressure of 1.5 psia or greater under actual storage condition into tank trucks which are in compliance with 310 CMR 7.24(4).

(e) Any person who owns, leases, operates or controls a facility which is or becomes subject to 310 CMR 7.24(2)(a), (b) or (c), shall continue to comply with all requirement of 310 CMR 7.24(2)(a), (b) or (c), respectively, even if the facility no longer meets the applicability requirements of 310 CMR 7.24(2)(a), (b) or (c).

(f) 310 CMR 7.24(2) shall not apply to dispensing of motor vehicle fuel to motor vehicle fuel tanks.

- (3) <u>Distribution of Motor Vehicle Fuel</u>.
 - (a) <u>Applicability</u>.
 - 1. The requirements of 310 CMR 7.24(3) apply to:
 - a. Any owner/operator of a motor vehicle fuel dispensing facility;

b. Any owner/operator of a company that performs Stage I compliance tests pursuant to 310 CMR 7.24(3).

2. The requirements of 310 CMR 7.24(3) do not apply to:

a. Stationary motor vehicle fuel storage tanks of less than 550 gallons capacity used exclusively for farm use provided the transfer of motor vehicle fuel only occurs through submerged filling;

b. Transfers made to motor vehicle fuel storage tanks equipped with floating roofs that have been approved by the Department pursuant to 310 CMR 7.24(1);

c. Stationary motor vehicle fuel storage tanks with a capacity of 250 to 1000 gallons, used for the purpose of onsite fueling of motor vehicles with motor vehicle fuel that is the by-product of motor vehicle salvage yard operations, provided the motor vehicle fuel storage tank is equipped with:

- i. a submerged fill pipe; and
- ii. a pressure vacuum vent valve;

d. Stationary motor vehicle fuel storage tanks of greater than 1000 gallons capacity, used for the purpose of onsite fueling of motor vehicles with motor vehicle fuel that is the by-product of motor vehicle salvage yard operations, provided the motor vehicle fuel storage tank is equipped with:

i. a submerged fill pipe; and

ii. an EVR pressure vacuum vent valve.

(b) Stage I Requirements.

 No owner/operator of a motor vehicle fuel dispensing facility shall allow the transfer of motor vehicle fuel to a storage tank unless the vapors are collected by a Stage I system.
 Any owner/operator of a motor vehicle fuel dispensing facility shall:

a. On or before two years from January 2, 2015, or upon decommissioning a Stage II system, whichever occurs sooner, install:

i. CARB Enhanced Vapor Recovery (EVR) pressure/vacuum vent valves; and ii. CARB EVR rotatable product and vapor adaptors; except that such adaptors shall not be required for aboveground storage tanks and motor vehicle fuel storage tanks equipped with coaxial Stage I systems.

b. On or before seven years from January 2, 2015 install:

i. A Stage I CARB EVR System in accordance with any one of the Executive Orders listed in 310 CMR 7.24(3)(c)1.: *Table 1*, except in accordance with 310 CMR 7.24(3)(d)4.; or

ii. A Stage I Component EVR System in accordance with the applicable Executive Orders listed in 310 CMR 7.24(3)(c)1.: *Table 1*. and manufacturers' guidance, except in accordance with 310 CMR 7.24(3)(d)4.

c. Not install a coaxial Stage I system, except that an existing coaxial system may be repaired (including replaced) and maintained with non-EVR components until the motor vehicle fuel tank is replaced.

3. Any owner/operator of a motor vehicle fuel dispensing facility who installs a Stage I system after January 2, 2015 shall install:

a. A Stage I CARB EVR System in accordance with one of the Executive Orders listed in 310 CMR 7.24(3)(c)1.: *Table 1*; or

b. A Stage I Component EVR System in accordance with the applicable Executive Orders listed in 310 CMR 7.24(3)(c)1.: *Table 1*. and manufacturers' guidance;

c. Submerged fill pipes so that the discharge point is entirely submerged when the liquid level is six inches above the bottom of the tank; and

d. A dual-point Stage I system.

4. Except as provided in 310 CMR 7.24(3)(b)5., any owner/operator of a motor vehicle fuel dispensing facility that has a monthly throughput of 100,000 gallons of motor vehicle fuel or more shall install and operate a Stage I system that meets the following design criteria:

a. All vapor connections and lines on the storage tank shall be equipped with closures that seal upon disconnect;

b. The vapor line from the gasoline storage tank to the gasoline cargo tank shall be vapor-tight;

c. The vapor balance system shall be designed such that the pressure in the tank truck does not exceed 18 inches water pressure or 5.9 inches water vacuum during product transfer;

d. The vapor recovery and product adaptors, and the method of connection with the delivery elbow, shall be designed so as to prevent the over-tightening or loosening of fittings during normal delivery operations;

e. If a gauge well separate from the fill tube is used, it shall be provided with a submerged drop tube that extends no more than six inches from the bottom of the tank;

f. Liquid fill connections for all systems shall be equipped with vapor-tight caps.

g. Pressure/vacuum (P/V) vent valves shall be installed on the storage tank vent pipes. The pressure specifications for PV vent valves shall be: a positive pressure setting of 2.5 to 6.0 inches of water and a negative pressure setting of 6.0 to 10.0 inches of water. The total leak rate of all PV vent valves at an affected facility, including connections, shall not exceed 0.17 cubic foot per hour at a pressure of 2.0 inches of water;

h. The vapor balance system shall be capable of meeting the static pressure performance requirement of the following equation:

Pf $= 2e^{-500.887/v}$

Where:

e

- Pf = Minimum allowable final pressure, inches of water.
- v = Total ullage affected by the test, gallons.
 - = Dimensionless constant equal to approximately 2.718.
- 2 = The initial pressure, inches water.
- 5. NESHAPS Compliance.

a. Any owner/operator subject to 310 CMR 7.24(3)(b)4. who chooses, under the provisions of 40 CFR Part 63.6(g), to use a vapor balance system other than that described in Table 1 to Subpart CCCCCC of 40 CFR Part 63, and who demonstrates to EPA the equivalency of their vapor balance system to that described in 310 CMR 7.24(3)(c)1.: *Table 1* pursuant to 40 CFR Part 63.11120(b), shall not be required to install and operate a Stage I system that meets the design criteria in 310 CMR 7.24(3)(b)4.a. through h.

b. Any owner/operator subject to 310 CMR 7.24(3)(b)4. who does not meet the requirements of 40 CFR Part 63.11118(b)(2) is required to fully comply with all applicable requirements in Subpart CCCCCC of 40 CFR Part 63, including recordkeeping, testing and monitoring, notification and reporting to EPA.

(c) <u>CARB EVR Systems</u>.

1. The Department adopts all terms and conditions of the CARB EVR System Executive Orders listed in 310 CMR 7.24(3)(c)1.: *Table 1*. and *Table 2*.

Table 1.
CARB Underground Storage Tank Phase I Enhanced Vapor Recovery System Executive Orders

Executive Order Number	Description	Date
VR-101-V	Phil-Tite/EBW/FFS Phase I Vapor Recovery System	April 27, 2022
VR-102-V	OPW Phase I Vapor Recovery System	May 31, 2021
VR-104-L	CNI Manufacturing Phase I Vapor Recovery System	May 31, 2021
VR-105-J	EMCO Wheaton Phase I Vapor Recovery System	May 31, 2021

Table 2.

CARB Aboveground Storage Tank Phase I Enhanced Vapor Recovery System Executive Orders

Executive Order Number	Description	Date
VR-301-I	Standing Loss Control of Vapor Recovery Systems for Existing Installations of Aboveground Storage Tanks	June 26, 2020
VR-302-I	Standing Loss Control of Vapor Recovery Systems for New Installations of Aboveground Storage Tanks	June 26, 2020
VR-401-F	OPW Phase I Enhanced Vapor Recovery (EVR) System for Aboveground Storage Tanks (AST)	July 17, 2019
VR-402-E	Morrison Brothers Phase I Enhanced Vapor Recovery (EVR) System for Aboveground Storage Tanks (AST)	July 17, 2019
G-70-216	Extension of Effective Dates for Existing Aboveground Storage Tanks	March 13, 2014

(d) Stage I System Operation, Maintenance and Record Keeping.

1. Any owner/operator of a motor vehicle fuel dispensing facility shall operate and maintain the Stage I system in accordance with the system's applicable Executive Orders and manufacturers' guidance.

2. Any owner/operator of a motor vehicle fuel dispensing facility shall visually inspect or cause to be visually inspected the Stage I system once every seven days to determine that the system and its components are unbroken, correctly installed and functioning. Each visual inspection shall include, but not be limited to, inspection of: coaxial adaptors; fuel and vapor rotatable adaptors; dust caps and gaskets; fuel and vapor spill buckets; drain valves; and pressure/vacuum vent valves. The owner/operator shall ensure that:

a. Visual inspections shall be performed only by a person who is trained to operate and maintain the Stage I system in accordance with the applicable manufacturers' guidance; and

b. A current record of all persons trained shall be maintained on site, including the date training was last received and the trainee's printed name and signature acknowledging receipt of the training.

3. Upon determining during a visual inspection that a Stage I system component is incorrectly installed, non-functioning or broken, the owner/operator of a motor vehicle fuel dispensing facility shall:

a. Immediately repair or replace the component; or

b. If repairs or replacements cannot be made immediately, repair or replace the component within 30 days of the visual inspection date, or

c. If a component cannot be repaired or replaced within 30 days of the visual inspection date, the transfer of motor vehicle fuel into the motor vehicle fuel storage tank equipped with the incorrectly installed, non-functioning or broken component is prohibited until the component is repaired or replaced.

4. Any replacement of an incorrectly installed, non-functioning or broken Stage I components shall be with a CARB EVR component and shall be installed in accordance with the applicable Executive Orders and manufacturers' guidance, except that an existing non-EVR "slip-on" spill bucket may be repaired (including replaced) until seven years from January 2, 1015 and may be used after seven years from January 2, 2015 until it needs to be repaired or replaced.

5. Every visual inspection shall be recorded on an inspection checklist that contains at a minimum the following information:

a. The date each inspection was performed and the name and signature of the person who performed the inspection;

b. Any Stage I system component determined to be incorrectly installed, non-functioning or broken;

c. Whether any incorrectly installed, non-functioning or broken component was immediately repaired or replaced within 30 days, or whether the transfer of motor vehicle fuel into the motor vehicle fuel storage tank was prohibited until the component was repaired or replaced; and

d. The date the incorrectly installed, non-functioning or broken component was repaired or replaced.

6. Any owner/operator of a motor vehicle fuel dispensing facility shall retain on-site in a centralized location in either hard copy or electronic format, the following records:

a. All of the visual inspection checklists for the prior rolling twelve-month period.

b. A copy of compliance testing company test results for compliance tests performed during the prior rolling 12-month period.

c. A copy of the Stage I system's most recent In-use Compliance Certification in accordance with 310 CMR 7.24(3)(e)4., or, if more recent, a copy of the Stage I system's Installation/Substantial Modification Certification in accordance with 310 CMR 7.24(3)(e)3.

d. The date and type of Stage I Routine Maintenance performed in the most recent rolling 12-month period in accordance with 310 CMR 7.24(3)(e)2.a.

7. All records required to be maintained shall be made available to the Department and EPA immediately upon request. If requested records cannot be made immediately available, requested records shall be delivered to the Department and EPA within seven business days of the initial request.

- (e) <u>Stage I Compliance Testing and Certification</u>.
 - 1. <u>Compliance Tests</u>. Any owner/operator of a motor vehicle fuel dispensing facility shall conduct the following compliance tests:
 - a. For all Stage I underground storage tank systems:
 - i. Pressure Decay two inch Test (CARB TP-201.3; March 17, 1999);
 - ii. Vapor Tie Test (San Diego APCD TP-96-1, section 5.1.9; March 1, 1996);
 - iii. Pressure/VacuumVent Valve Test (CARB TP-201.1E; October 8, 2003);
 - iv. Static Torque Rotatable Adaptor Test (CARB TP-201.1B; October 8, 2003), if rotatable adaptors are installed; and
 - v. as applicable to CARB EVR components, either:
 - (i) Leak Rate of Drop Tube/Drain Valve Assembly Test (CARB TP-201.1 C; October 8, 2003); or
 - (ii) Leak Rate of Drop Tube/ Overfill Prevention Devices (CARB TP-201.1D; October 8, 2003).
 - b. For all Stage I aboveground storage tank systems:
 - i. Determination of Static Pressure Performance of Vapor Recovery Systems at Gasoline Dispensing Facilities with Aboveground Storage Tanks in Exhibit 4 of CARB Executive Order VR-401-C (June 30, 2013) and CARB Executive Order VR-402-B (April 15, 2013);

ii. Static Torque Rotatable Adaptor Test (CARB TP-201.1B; October 8, 2003), if rotatable adaptors are installed; and

iii. Pressure/VacuumVent Valve Test (CARB TP-201.1E; October 8, 2003).

- 2. <u>Stage I Routine Maintenance and Stage I Minor Modifications</u>.
 - a. In the event of Stage I routine maintenance, a record of all Stage I routine maintenance shall be maintained in accordance with 310 CMR 7.24(3)(d)6. Compliance testing and submittal of a compliance certification to the Department is not required.

b. In the event of a Stage I minor modification, applicable compliance tests shall be performed in accordance with 310 CMR 7.24(3)(e)1. and passed prior to commencing system operation and a record of the modification and test results shall be maintained in accordance with 310 CMR 7.24(3)(d)6. Submittal of a compliance certification to the Department is not required.

c. Any replacement of a Stage I system component shall be with a CARB EVR component.

3. <u>Stage I Installation and Substantial Modification Certification</u>. Any owner/operator of a motor vehicle fuel dispensing facility who installs a Stage I system or makes a Stage I substantial modification shall, prior to commencing operation, perform and pass all applicable compliance tests listed in 310 CMR 7.24(3)(e)1. The owner/operator shall submit to the Department within seven business days of performing and passing the tests, a fully completed and signed Installation/Substantial Modification Certification, on a form provided by the Department, attesting to the following:

a. The installed or substantially modified Stage I system has been installed, repaired or modified in accordance with the applicable Executive Orders and manufacturers' guidance; and

b. All applicable compliance tests listed in 310 CMR 7.24(3)(e)1. were performed and passed.

4. <u>Annual In-use Compliance Certification</u>. Except as provided in 310 CMR 7.24(3)(e)5.:

a. Any owner/operator of a motor vehicle fuel dispensing facility shall annually submit to the Department within 30 days of performing and passing all applicable compliance tests a fully completed and signed In-use Compliance Certification on a form provided by the Department.

b. Any owner/operator of a motor vehicle fuel dispensing facility shall attest to the following:

i. The Stage I system is operated and maintained in accordance with the applicable Executive Orders and manufacturers' guidance; and

ii. All applicable compliance tests listed in 310 CMR 7.24(3)(e)1. were performed and passed.

5. <u>Alternative Annual In-use Compliance Certification</u>.

a. Any owner/operator of a motor vehicle fuel dispensing facility who submits Annual In-use Compliance Certifications for two consecutive years in compliance with 310 CMR 7.24(3)(e)4. in which all applicable in-use compliance tests were passed on the first try, as certified pursuant to 310 CMR 7.24(3)(h)8., may elect to submit to the Department an Alternative Annual In-use Compliance Certification on a form provided by the Department.

b. An owner/operator meeting the requirements of 310 CMR 7.24(3)(e)5.a. and electing to submit an Alternative Annual In-use Compliance Certification shall be:

i. exempt from annual Stage I compliance testing requirements in the first year the Alternative Annual In-use Compliance Certification is submitted in compliance with 310 CMR 7.24(3)(e)5.a.; and

ii. subject to all compliance tests listed in 310 CMR 7.24(3)(e)1. as applicable, in the second year the Alternative Annual In-use Compliance Certification is submitted, and every other year thereafter.

c. Any owner/operator of a motor vehicle fuel dispensing facility who submits an alternative In-use Compliance Certification and fails one or more compliance certification tests on the first try shall, in subsequent years, comply with the requirements of 310 CMR 7.24(3)(e)4., until such time as the owner/operator meets the requirements in 310 CMR 7.24(3)(e)5.a.

6. Determination of Submittal and Receipt Dates.

a. The owner/operator of a motor vehicle fuel dispensing facility shall submit the annual certification required by 310 CMR 7.24(3)(e)4. to the Department no later than the anniversary of the receipt date of the most recently submitted:

- i. Stage I Installation/Substantial Modification Certification;
- ii. Annual Stage I In-use Compliance Certification;
- iii. Alternative Annual In-use Compliance Certification; or
- iv. Stage II Decommissioning Notification.

b. If the owner/operator requests a change in the submittal due date, the Department may revise the annual certification submittal due date and shall set a revised submittal due date that is no more than 12 months after the current submittal due date.

c. Receipt Date at the Department shall be determined as follows:

i. If hand-delivered, the receipt date is the date of the receipt stamp;

ii. If mailed, the receipt date is the date of the postmark on the envelope used to submit the document to the Department; or

iii. If electronically submitted, the receipt date is the date the electronic submission is sent to the Department.

7. Any owner/operator of a motor vehicle fuel dispensing facility whose Stage I system fails one or more in-use compliance tests required by 310 CMR 7.24(3)(e)1. shall:

a. Immediately repair or replace the incorrectly installed, non-functioning or broken component in accordance with the applicable Executive Orders and manufacturers' guidance;

b. If any Stage I system component is replaced, it shall be replaced with a CARB EVR component and installed in accordance with applicable Executive Orders and manufacturers' guidance;

c. Continue to repair or replace and re-test until each failed test is passed; and

d. Submit to the Department an Annual In-use Compliance Certification on or before the facility's Annual In-use Compliance Certification submittal due date or within 30 days of the date of the first passing test result, whichever occurs first.

8. If a Stage I system fails one or more required in-use compliance tests and the system cannot be repaired as required by 310 CMR 7.24(3)(e)7., the owner/operator of a motor vehicle fuel dispensing facility shall not transfer or allow the transfer of motor vehicle fuel into the motor vehicle fuel storage tank equipped with the failing Stage I system until the system is repaired in accordance with the applicable Executive Orders and manufacturers' guidance and all applicable compliance testing, record keeping and certification requirements for routine maintenance, minor modification or substantial modification of a Stage I system are complied with.

9. Any Certification submitted to the Department as required by 310 CMR 7.24(3)(e) shall be signed by a Stage I System Responsible Official as required by 310 CMR 7.24(3)(g).

10. Any owner/operator of a motor vehicle fuel dispensing facility, upon written notice from the Department, shall perform such compliance tests as the Department determines necessary to demonstrate the Stage I system is installed and maintained in accordance with the applicable Executive Orders and manufacturers' guidance and shall submit the results to the Department within 14 days of the performance of the tests.

11. Compliance tests performed to meet the requirements of 310 CMR 7.24(3)(e)1. shall be performed only by a compliance testing company that has submitted a Compliance Testing Company Notification to the Department as required by 310 CMR 7.24(3)(h)1.

(f) Notification Requirements.

1. Any person, upon entering into a purchase, lease or other contractual agreement by which the person becomes the owner/operator of a motor vehicle fuel dispensing facility subject to 310 CMR 7.24(3), shall submit to the Department, within 30 days of the effective date of becoming such an owner/operator or within ten days of a written request from the Department, a fully completed New Stage I System Owner/Operator Notification on a form provided by the Department.

a. The Notification shall include the following:

i. The name of the new Stage I system owner/operator, and related business documentation, including the name and address of the facility where the Stage I system is located; and

ii. The effective date that the person became the new owner/operator.

b. The Notification shall be signed by the individual who is a Stage I Responsible Official for the new owner/operator regarding the Stage I system, who shall attest to the following:

i. I certify that I personally examined the foregoing and am familiar with the information contained in this document and all the attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment;

ii. I am fully authorized to make this attestation on behalf of this facility.

2. Any owner/operator of a motor vehicle fuel dispensing facility, upon entering into a sale, lease or other contractual agreement by which the owner/operator relinquishes his or her authority as an owner/operator of a motor vehicle fuel dispensing facility subject to 310 CMR 7.24(3), shall submit to the Department, within 30 days of the effective date of the sale, lease or other contractual agreement, a signed letter, or a form provided by the Department, notifying the Department of the following:

a. The name of the owner/operator relinquishing authority as an owner/operator, the facility name, address, and DEP Facility Account Number, as applicable;

b. The name of the new owner/operator of the motor vehicle fuel dispensing facility subject to 310 CMR 7.24(3) mailing address, phone number, email address; and

c. The effective date of the change of owner/operator.

3. Any owner/operator of a motor vehicle fuel dispensing facility seeking to permanently or temporarily take out-of-service a Stage I system shall submit to the Department a fully completed and signed Stage I System Closure Notification on a form provided by the Department.

a. The Stage I System Closure Notification shall include, but not be limited to:

i. The name of the motor vehicle fuel dispensing facility owner/operator and related business information;

ii. The DEP Facility Account Number, as applicable;

iii. The name and address of the facility where the Stage I system is located;

iv. The date the Stage I system was permanently or temporarily taken out-of-service, and attached, as applicable, current:

(i) Underground storage tank Registration pursuant to 310 CMR 80.00: *Underground Storage Tank (UST) Operator Training* indicating that the status of the tank is Temporarily Out-of-service;

(ii) Underground storage tank Registration pursuant to 310 CMR 80.00: *Underground Storage Tank (UST) Operator Training* indicating the that status of the tank is closed (Removed or Closed In-place); or

(iii) Local permit for aboveground storage tank documenting Temporarily Out-of service Status or closure/removal.

b. A Stage I system shall not be temporarily out-of-service for more than five years from the date of being taken out of service pursuant to 310 CMR 7.24(3)(f)a.iv.(i) through (iii), as applicable.

c. Any owner/operator of a Stage I system that is temporarily out-of-service in accordance with 310 CMR 7.24(3)(f)3. shall, prior to recommencing operation, perform and pass all applicable compliance tests in accordance with 310 CMR 7.24(3)(e)1. and submit to the Department a fully completed Installation/Substantial Modification Certification as required by 310 CMR 7.24(3)(e)3.

d. Any Notification submitted to the Department as required by 310 CMR 7.24(6)(f) shall be signed by a Responsible Official as required by 310 CMR 7.24(3)(g).

(g) <u>Stage I System Responsible Official Certification of Compliance</u>.

1. Except in circumstances described in 310 CMR 7.24(3)(g)2., any Certification required by 310 CMR 7.24(3)(e) or Notification required by 310 CMR 7.24(3)(f) shall be signed by a Responsible Official regarding Stage I system compliance.

2. For Stage I systems owned by one party and leased, operated or controlled by another independent party and where both parties have separate Stage I system compliance responsibilities, any Certification submitted pursuant to 310 CMR 7.24(3)(e) or Notification submitted pursuant to 310 CMR 7.24(3)(f) shall be signed by Responsible Officials for each party regarding Stage I system compliance. Each Responsible Official shall attest to the following:

a. I certify that I personally examined the foregoing and am familiar with the information contained in this document and all the attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment;

b. that systems to maintain compliance are in place at the facility and will be maintained for the coming year even if the processes or operating procedures are changed over the course of the year; and

c. I am fully authorized to make this attestation on behalf of this facility.

(h) <u>Compliance Testing Company Requirements</u>.

1. If an owner/operator, employee or contractor of a compliance testing company performs Stage I compliance tests to meet the requirements of 310 CMR 7.24(3)(e)1., the owner/operator of a compliance testing company shall submit to the Department a fully completed Compliance Testing Company Notification, on a form provided by the Department, prior to performing any required Stage I compliance test.

a. The Compliance Testing Company Notification shall include the following:

i. The name and business mailing address of the Stage I compliance testing company owner, operator, lessee or controller;

ii. The name and address of any business that is engaged in the installation or Substantial Modification of Stage I systems and is owned, operated, leased or controlled by, or affiliated with the owner/operator of the compliance testing company;

iii. The name and address of any motor vehicle fuel dispensing facility subject to 310 CMR 7.24(3) that is owned, operated, leased or controlled by, or affiliated with the owner/operator of the compliance testing company;

iv. The address and telephone number of the facility(ies) from which the daily compliance testing activities of the compliance testing company originate and at which any records required by 310 CMR 7.24(3)(h)10. are maintained;

v. A written description of the employee training systems in place at the compliance testing company to ensure required compliance tests are performed as required by applicable protocols and procedures, pursuant to 310 CMR 7.24(3)(h)6. and 7.; and

vi. A list of all compliance testing company Responsible Officials with the authority to sign Compliance Testing Company Certifications on behalf of the compliance testing company.

b. Each Compliance Testing Company Notification shall be signed by an individual who is a Responsible Official for the compliance testing company, who shall attest to the following:

i. I certify that I personally examined the foregoing and am familiar with the information contained in this document and all the attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment;

ii. Employee training systems are in place at the compliance testing company to ensure Stage I compliance tests are performed as required by all applicable protocols and procedures and such training systems will be maintained for the coming year even if the protocols and procedures are changed over the course of the year; and

iii. I am fully authorized to make this attestation on behalf of this compliance testing company.

An owner/operator of a compliance testing company shall notify the Department in writing of any change to the information submitted to the Department pursuant to 310 CMR 7.24(3)(h)1. within 14 days of the effective date of such change. Upon the Department's written request, the person shall submit a fully revised and completed Notification to the Department as required by the requirements of 310 CMR 7.24(3)(h)1.
 No owner/operator, employee or contractor of a compliance testing company shall perform any Stage I compliance test unless said person has first been trained in accordance with the applicable compliance test protocols and procedures required by 310 CMR 7.24(3)(h)7.

4. An owner/operator of a compliance testing company shall submit, at least once every two weeks, a written list to the Department identifying all motor vehicle fuel dispensing facilities at which the company is scheduled to perform required Stage I compliance tests over the next 14 day period.

a. The list shall include the name and address of each motor vehicle fuel dispensing facility to be tested, the applicable section under 310 CMR 7.24(3)(e) 3., 4., or 5., and the estimated time that the company expects to arrive at the facility location.

b. The Department shall be notified, in writing, of any change of date of an individual facility's scheduled compliance tests no later than 9:00 A.M. of the day the scheduled tests are to occur. Additions to a submitted compliance-testing schedule shall be submitted to the Department, in writing, no less than two working days prior to the date of any scheduled test.

c. Failure to comply with the Notification requirements of 310 CMR 7.24(3)(h)4. may be a basis for the Department to determine that tests conducted after inadequate notice are invalid.

5. An owner/operator of a compliance testing company shall immediately notify the Department of any failed Stage I compliance tests performed as required by 310 CMR 7.24(3)(e) if the person did not return to retest the Stage I system as required by 310 CMR 7.24(3)(e)7. on or before the facility's Annual In-use Compliance Certification submittal date, or within 30 days of the date of the Stage I system's first passing test result, whichever occurs first. The owner/operator of the compliance testing company shall notify the Department regarding the name and address of the motor vehicle fuel dispensing facility, the facility's Facility Account Number and the tests failed.

6. An owner/operator, employee or contractor of a compliance testing company shall perform compliance tests to meet the requirements of 310 CMR 7.24(3)(e) only upon confirmation that:

a. All Stage I system components are installed as required and are the correct components pursuant to the requirements of 310 CMR 7.24(3)(c); and

b. All motor vehicle fuel dispensing facilities with two or more motor vehicle fuel storage tanks are properly manifolded pursuant to the requirements of applicable Executive Orders.

7. An owner/operator, employee or contractor of a compliance testing company shall perform Stage I compliance tests on all Stage I systems to meet the requirements of 310 CMR 7.24(3) only in accordance with the applicable test procedures cited in 310 CMR 7.24(3)(e)1.

8. An owner/operator of a compliance testing company shall certify to the Department that each compliance test performed to meet the requirements of 310 CMR 7.24(3)(e) was performed as required by 310 CMR 7.24(3)(h)6. and 7. As applicable, the Certification shall be submitted on a Stage I Installation/Substantial Modification Certification, Alternative Annual In-use Compliance Certification, or In-use Compliance Certification and shall include:

a. The date each compliance test was first performed and the result; and

b. The date each compliance test was performed and passed.

9. Each Certification submitted pursuant to 310 CMR 7.24(3)(h)8. shall be fully completed and signed by a compliance testing company Responsible Official, who shall attest to the following:

a. I certify that I personally examined the foregoing and am familiar with the information contained in this document and all the attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment; and

b. I am fully authorized to make this attestation on behalf of this compliance testing company.

10. An owner/operator of a compliance testing company shall maintain the following records on site, for a minimum of five years, at the location(s) referenced on the form submitted pursuant to 310 CMR 7.24(3)(h)1.a.:

a. A complete set of records of compliance tests performed to meet the requirements of 310 CMR 7.24(3)(c). Such records shall include, by facility address:

i. The date and first result for each required test performed;

ii. The date each test was performed and passed; and

iii. An itemized list of all Stage I system components repaired or replaced as necessary for the system to pass the applicable tests, including but not limited to: all spill containment buckets, drain valves, dust caps, rotatable product adaptors, riser adaptors, drop tubes, rotatable vapor adaptors, tank gauge ports, and pressure/vacuum vent valves that are replaced with a CARB EVR component.

b. A current record of all employees or contractors trained as required by 310 CMR 7.24(3)(h)3. Such record shall include the following:

i. The date training was received;

ii. The person or employee's printed name; and

iii. The signature of the person or employee acknowledging receipt of required training.

11. The owner/operator of the compliance testing company shall make all records available to the Department or EPA immediately upon the request. If requested records cannot be made immediately available, requested records shall be delivered to the Department and EPA within seven business days of the initial request.

(i) Violations of 310 CMR 7.24(3). Any failure to comply with 310 CMR 7.24(3), or the terms and conditions of any order, permit, authorization, determination, certification, prohibition or approval issued under 310 CMR 7.24(3) shall constitute a violation of 310 CMR 7.24(3). Nothing in 310 CMR 7.24(3), or in any order issued pursuant thereto, shall be construed to limit any right of the Department to take enforcement action pursuant to any other authority.

(j) <u>Enforcement Provisions</u>. The provisions and requirements of 310 CMR 7.24(3)(a) and (b) are subject to the enforcement provisions specified in 310 CMR 7.52.

(4) Motor Vehicle Fuel Tank Trucks.

(a) No owner/operator of a tank truck that carries motor vehicle fuel with a true vapor pressure equal to or greater than 1.5 psia under actual storage conditions and receives fuel from or delivers fuel to a facility subject to 310 CMR 7.24(2), or delivers fuel to a facility subject to the requirements of 310 CMR 7.24(2) or (3) shall cause, suffer, allow or permit the tank truck to be loaded or unloaded unless the tank truck:

1. Was tested within the 12 preceding months pursuant to 310 CMR 7.24(4)(i);

2. Sustains a pressure change of no more than three inches of water in five minutes when pressurized to a gauge pressure of 18 inches of water or when evacuated to a gauge pressure of 5.9 inches of water during the testing;

3. Is repaired and retested within 15 days of testing if it does not meet the criteria of 310 CMR 7.24(4)(a)2.; and

4. Displays a marking in two inch high letters near the Department of Transportation Certification plate required by 49 CFR 178.340-10b, which:

a. Shows the initials "DEP" and the date the tank truck last passed the test ("DEP date"); and

b. Shall expire not more than 12 months after the date the tank truck last passed the test.

(b) The owner/operator of a bulk terminal, bulk plant, motor vehicle fuel dispensing facility or tank truck subject to 310 CMR 7.24(2), (3), or (4)(a) shall design, install and operate any vapor collection and disposal system, vapor balance system, and any appurtenant loading equipment in a vapor-tight manner that prevents:

1. Gauge pressure from exceeding 18 inches of water and vacuum from exceeding 5.9 inches of water in the tank truck; and

2. A reading equal to or greater than 100% of the lower explosive limit (LEL, measured as propane) at one inch from all points of the perimeter of a potential leak source during transfer operations at the loading rack or stationary tank; and

3. Visible liquid leaks during loading at the loading rack or unloading at the stationary tank.

(c) The owner/operator of a tank truck subject to 310 CMR 7.24(4) shall:

1. Notify the Department in writing of the date and location of a certification test at least two days before the anticipated test date; and

2. Within 15 days, repair and retest a vapor recovery system or tank truck that exceeds the limits in 310 CMR 7.24(4)(a) or (b).

(d) The Department may, at any time, test any tank truck, or vapor recovery system to determine compliance with the requirements of 310 CMR 7.24(4)(a) or (b).

(e) [Reserved]

(f) Copies of all records and reports required under 310 CMR 7.24 shall immediately be made available to the Department upon verbal or written request, at any reasonable time.

(g) At the discretion of the Department, the requirements for testing and marking motor vehicle fuel tank trucks subject to 310 CMR 7.24(4) may be satisfied if the vehicle undergoes equivalent certification in another state.

(h) The owner/operator of a tank truck subject to 310 CMR 7.24(4)(a) shall maintain records of the daily throughput of any organic material with a true vapor pressure of 1.5 psia or greater under actual storage conditions.

(i) <u>Testing Requirements</u>. Testing to determine compliance with 310 CMR 7.24(4) shall be conducted in accordance with EPA Method 27 as described in Appendix A of CFR Title 40 Part 60, or by any other methods approved by the Department and EPA.

(j) Any owner/operator of a tank truck shall:

1. Maintain and operate the tank truck such that it is vapor tight at all times;

2. Re-fill the tank truck only at bulk gasoline terminals and plants equipped with properly operating vapor recovery systems pursuant to 310 CMR 7.24(2); and

3. Keep hatches on the tank truck closed at all times during loading and unloading.

(6) <u>U Dispensing of Motor Vehicle Fuel</u>.

(a) Applicability and Installation Requirements.

1. Any person who owns, leases, operates or controls a motor vehicle fuel dispensing facility or tank truck shall be prohibited from installing a Stage II Vapor Recovery System.

2. Any person who owns, leases, operates or controls a motor vehicle fuel dispensing facility or tank truck with a Stage II Vapor Recovery System shall decommission the Stage II Vapor Recovery System on or before two years from January 2, 2015 in accordance with 310 CMR 7.24(6)(1).

3. In response to a written request submitted to the Department six months prior to two years from January 2, 1015, the Department, in its sole discretion, may grant an owner, lessee, operator or controller of a Stage II system with an annual throughput of less than 500,000 gallons, an extension of up to two years after two years from January 2, 2015 to decommission the Stage II system based on financial hardship or extenuating circumstances.

4. Any person who owns, leases, operates or controls a motor vehicle fuel dispensing facility or tank truck with a Stage II vapor recovery system shall maintain and operate the Stage II system in accordance with 310 CMR 7.24(6) until the Stage II system is decommissioned in accordance with 310 CMR 7.24(6)(1).

5. Any person subject to 310 CMR 7.24(6) shall conspicuously post Stage II system operating instructions on both sides of all motor vehicle fuel dispensers or at a position adjacent to the dispensers that is clearly visible to the system operator during the refueling process. Such instructions shall include:

a. a clear pictorial or written description of how to correctly dispense motor vehicle fuel using the installed Stage II system;

b. a warning not to continue dispensing motor vehicle fuel ("topping-off") after automatic system shutoff has engaged; and

c. the telephone number of the Department's Stage II Consumer Hotline.

(b) Operation and Maintenance Requirements.

1. Any person subject to 310 CMR 7.24(6) shall comply with the following operation and maintenance requirements.

a. Operate and maintain the installed Stage II system as required by the terms and conditions of the system's currently applicable Executive Order.

b. Take such actions as necessary to comply with the applicable terms and conditions of any new or modified Executive Order upon Department revision of 310 CMR 7.24(6) to incorporate such new or modified Executive Order. Such actions shall be taken either:

i. during applicable Routine Maintenance, Minor Modification or Substantial

Modification of the Stage II System; or

ii. within four years of January 2, 2015.

c. Once every seven days perform a weekly visual inspection of the Stage II system components to determine if such components are installed, functioning and unbroken as required by the terms and conditions of the system's currently applicable Executive Order. Each visual inspection shall include, but not be limited to, inspection of: nozzle boots and splash/vapor guards; hoses; hose retractors, coaxial adaptors, dry breaks, fill caps and gaskets, vapor recovery caps and gaskets, spill containment boxes and drain valves.

d. Upon determining a Stage II system component is incorrectly installed, non-functioning or broken during a visual inspection, immediately:

i. repair such component(s) as required by the terms and conditions of the system's currently applicable Executive Order;

ii. stop dispensing motor vehicle fuel through such component(s), conspicuously post "Out of Service" signs on such component, and repair such component as required by the terms and conditions of the system's currently applicable Executive Order within 14 days of the date such component is determined to be incorrectly installed, non-functioning or broken; or

iii. decommission the Stage II system in accordance with 310 CMR 7.24(6)(l).

e. If an incorrectly installed, non-functioning or broken component cannot be repaired as required by 310 CMR 7.24(6)(b)1.d., such component shall immediately be isolated. "Out of Service" signs shall be conspicuously posted on said isolated component until such time as said component is correctly repaired as required by the Stage II system's currently applicable Executive Order or the Stage II system is decommissioned in accordance with 310 CMR 7.24(6)(1).

f. If an incorrectly installed, non-functioning or broken component cannot be repaired or isolated as required by 310 CMR 7.24(6)(b)1.d. or e., the person who owns, operates, leases or controls the Stage II system at the facility shall immediately stop dispensing motor vehicle fuel and conspicuously post "Out of Service" signs on all motor vehicle fuel dispensers until such time as all incorrectly installed, non-functioning or broken components are correctly repaired as required by the terms and conditions of the Stage II system's currently applicable Executive Order or the Stage II system is decommissioned in accordance with 310 CMR 7.24(6)(1).

2. A visual inspection of a Stage II system to meet the requirements of 310 CMR 7.24(6)(b)1.c. shall be performed only by a person who is trained to operate and maintain the Stage II system as required by the terms and conditions of the system's currently applicable Executive Order. A current record of all persons trained shall be maintained on site or, for tank trucks, at the address from which the tank truck is principally operated, and shall include the following:

a. the date training was last received;

- b. the trainee's printed name; and
- c. the personal signature of the trainee acknowledging receipt of the training.

3. Any person subject to 310 CMR 7.24(6) shall maintain all Stage II system maintenance records on site, in a centralized location, for the most recent rolling 12-month period. Such records may be either in hard copy or electronic format, provided that a hard copy of any electronic records shall be printed on-site immediately upon request. Such maintenance records for tank trucks shall be maintained at the address from which the tank truck is principally operated. Stage II system maintenance records shall include:

a. all of the facility's weekly inspection checklists for the prior rolling 12-month period, identifying:

i. the date each weekly visual inspection was performed and the signature of the person who performed the visual inspection;

ii. any Stage II system component determined to be incorrectly installed, non-functioning or broken;

iii. whether the identified incorrectly installed, non-functioning or broken component was immediately repaired, taken out of service and repaired within 14 days, Isolated, or the facility stopped dispensing motor vehicle fuel and all fuel dispensers were taken out of service;

iv. the date the incorrectly installed, non-functioning or broken components identified in 310 CMR 7.24(6)(b)3.iii. were repaired.

b. A copy of compliance testing company test results for all Stage II compliance tests during the prior rolling twelve-month period.

c. A copy of the Stage II system's most recent Annual In-use Compliance Certification.

4. All records maintained pursuant to 310 CMR 7.24(6)(b)2. and 3. shall be made available to the Department or EPA immediately upon request. In the event requested records cannot be made immediately available, requested records shall be delivered to the Department or EPA, as applicable, within seven business days of the initial request.
(c) Compliance Testing and Certification Requirements.

1. Stage II system testing, record keeping and certification as a result of routine maintenance or minor modification of a Stage II system.

a. In the event of routine maintenance, a record of such maintenance shall be maintained in accordance with 310 CMR 7.24(6)(b)3. Compliance testing and submittal of a compliance certification to the Department is not required.

b. In the event of a minor modification of a Stage II system, applicable compliance tests shall be performed and passed prior to commencing system operation and a record of such modification and test results shall be maintained in accordance with 310 CMR 7.24(6)(b)3. Submittal of a compliance certification to the Department is not required.

2. Installation/Substantial Modification Certification. Any person subject to 310 CMR 7.24(6) who installs or makes a substantial modification to a Stage II system shall, prior to commencing operation, perform and pass all applicable compliance tests pursuant to 310 CMR 7.24(6)(d) and submit to the Department within seven days of performing and passing said tests, a fully completed and signed Installation/Substantial Modification Certification, on a form obtained from the Department, attesting to the following:

a. the installed or substantially modified Stage II system is installed or substantially modified in compliance with 310 CMR 7.24(6)(a);

b. all applicable compliance tests as required by 310 CMR 7.24(6)(d) were performed and passed; and

c. the applicable installation compliance tests were performed and passed not more than 30 days prior to the submittal of the Certification to the Department.

3. <u>Annual In-use Compliance Certification</u>. Except as provided in 310 CMR 7.24(6)(c)4., any person subject to 310 CMR 7.24(6) shall annually submit to the Department a fully completed and signed Annual In-use Compliance Certification, on a form obtained from the Department, attesting to the following:

a. the installed Stage II system is operated and maintained as required by 310 CMR 7.24(6)(b);

b. the following in-use compliance tests, as applicable, were performed as required by 310 CMR 7.24(6)(d):

i. Vapor Balance Systems.

(i) Annual in-use compliance tests: Pressure Decay Test; Vapor Tie Test; P/V Vent Test.

(ii) Every-third-year in-use compliance test: Dynamic Pressure/Liquid Blockage Test.

ii. Vacuum Assist Systems.

(i) Annual in-use compliance tests: Pressure Decay Test; Vapor Tie Test; P/V Vent Test; and Air-to-liquid Ratio Test.

(ii) Every-third-year in-use compliance test: Dynamic Pressure/Liquid Blockage Test.

iii. <u>Healy Systems</u>. All applicable tests shall be performed annually.

c. The applicable in-use compliance tests were performed and passed not more than 30 days prior to the submittal of the Certification to the Department.

4. <u>Alternative Annual In-use Compliance Certification</u>. Any person subject to 310 CMR 7.24(6) who submits two consecutive years of Annual In-use Compliance Certifications in compliance with 310 CMR 7.24(6)(c)3. in which all applicable in-use compliance tests were passed on the first try, as certified pursuant to 310 CMR 7.24(6)(g)8., may elect to submit annually to the Department an Alternative Annual In-use Compliance Certification on a form obtained from the Department:

a. Facilities meeting the requirements of 310 CMR 7.24(6)(c)4. and electing to submit an Alternative Annual In-use Compliance Certification shall be:

i. exempt from annual Stage II compliance testing requirements in the year following the submittal of two consecutive years' of Annual In-use Compliance Certifications in compliance with 310 CMR 7.24(6)(c)4.; and

ii. subject to all applicable Stage II compliance tests as referenced in 310 CMR 7.24(6)(d) in the second year following the submittal of two consecutive years' Annual In-use Compliance Certifications in compliance with 310 CMR 7.24(6)(c)3., and every other year thereafter.

b. Any person submitting an Alternative Annual In-use Compliance Certification to the Department shall fully complete and sign said Certification and attest to the following:

i. the installed Stage II system is correctly operated and maintained as required by 310 CMR 7.24(6)(b);

ii. all applicable compliance tests were performed and passed as required by 310 CMR 7.24(6)(c)4.a.ii., and

iii. The applicable compliance tests were performed and were passed not more than 30 days prior to the date postmarked on the envelope used to submit the Certification to the Department.

c. Any person submitting an Alternative Annual In-use Compliance Certification and fails one or more compliance certification tests on the first try as required by 310 CMR 7.24(6)(c)4. shall be required, in subsequent years, to annually certify in compliance with the requirements of 310 CMR 7.24(6)(c)3., until such time as said person meets the requirements in 310 CMR 7.24(6)(c)4.

5. <u>Annual In-use Compliance Certification Submittal Requirements</u>. The annual submittal date for Certifications required pursuant to 310 CMR 7.24(6)(c)3. and 4., is no later than:

a. For persons subject to 310 CMR 7.24(6) who install or make a Substantial Modification to a Stage II system on or after January 1, 2001, the anniversary of the submittal to the Department of the Installation Compliance Certification required by 310 CMR 7.24(6)(c)1. or the date the facility commenced operation, whichever occurs first; and

b. For all other persons subject to 310 CMR 7.24(6), May 1, 2002, or a date otherwise provided by the Department, whichever is earlier. Persons subject to 310 CMR 7.24(6)(c)5.b. who are provided an annual submittal date by the Department shall be notified by the Department of their first annual submittal date and required in-use compliance tests pursuant to 310 CMR 7.24(6)(c)3.b. no less than 90 days prior to the first annual submittal date established by the Department.

c. Upon request of any person subject to 310 CMR 7.24(6), the Department may revise said person's annual Certification submittal date. Such revision shall set a revised annual submittal date that is no more than 12 months after the otherwise applicable submittal date.

6. Any person who owns, leases, operates or controls a Stage II system that fails one or more in-use compliance tests required by 310 CMR 7.24(6)(c)3. or 4., shall immediately: a. either:

i. repair or replace an incorrectly installed, non-functioning or broken component as required by the terms and conditions of the Stage II system's currently applicable Executive Order; or

ii. decommission the Stage II system in accordance with 310 CMR 7.24(6)(l);b. if such person does not elect to decommission the Stage II system, then such person shall also re-test and pass each failed test; and

c. submit to the Department the required Annual In-use Compliance Certification on or before the facility's Annual In-use Compliance Certification submittal date or within 30 days of the date of the Stage II system's first passing test result as required by 310 CMR 7.24(6)(c)3.c. or 310 CMR 7.24(6)(c)4.c., as applicable, whichever occurs first.

7. If a facility fails one or more required in-use compliance tests and the incorrectly installed, non-functioning or broken components cannot be repaired as required by 310 CMR 7.24(6)(c)7, the person who owns, leases, operates or controls the Stage II system at such facility shall immediately:

a. either:

i. isolate the incorrectly installed, non-functioning or broken components from the Stage II system so that the remainder of the Stage II system operates as required by the terms and conditions of the system's currently applicable Executive Order; or

ii. decommission the Stage II system in accordance with 310 CMR 7.24(6)(1). b. if such person does not elect to decommission the Stage II system, then the person who owns, leases, operates or controls the Stage II system shall also submit to the Department the required Annual In-use Compliance Certification based on passing test results for the remainder of the Stage II system on or before the facility's Annual In-Use Compliance Certification submittal date or within 30 days of the date of the Stage II system's first passing test result as required by 310 CMR 7.24(6)(c)3.c. or 310 CMR 7.24(6)(c)4.c., as applicable, whichever occurs first.

c. Any Stage II system component isolated from the remainder of the Stage II System shall remain Isolated until such time as:

i. said component is repaired as required by the terms and conditions of the Stage II System's currently applicable Executive Order; and

ii. all applicable, compliance testing, record keeping and certification requirements for the Routine Maintenance, Minor Modification, or Substantial Modification of a Stage II system are complied with.

8. If a facility fails one or more required in-use compliance test and the incorrectly installed, non-functioning or broken Stage II system component cannot be repaired as required by 310 CMR 7.24(6)(c)6. or 7., the person who owns, operators, leases or controls such Stage II system at such facility shall immediately stop dispensing motor vehicle fuel and conspicuously post "Out of Service" signs on all motor vehicle fuel dispensers until such time as:

a. all incorrectly installed, non-functioning or broken components are repaired as required by the terms and conditions of the Stage II system's currently applicable Executive Order;

b. all applicable in-use compliance tests are performed and passed as required by 310 CMR 7.24(6)(c)3. or 4., as applicable; and

c. a fully completed Annual In-use Compliance Certification has been submitted to the Department as required by 310 CMR 7.24(6)(c)3.

d. If a facility fails one or more required in-use compliance tests and is subject to 310 CMR 7.24(6)(c)8., for purposes of compliance with the Annual In-use Compliance Certification submittal requirements of 310 CMR 7.24(6)(c)3. or 4., the person who owns, operates, leases or controls the Stage II system shall submit to the Department a fully completed and signed Stage II System Closure Notification as required by 310 CMR 7.24(6)(e)3. on or before said facility's currently applicable Annual In-Use Compliance Certification submittal due date.

9. Any Certification submitted to the Department as required by 310 CMR 7.24(6)(c) shall be signed by a Stage II System Responsible Official as required by 310 CMR 7.24(6)(f).

10. Any person subject to 310 CMR 7.24(6), upon written notice from the Department, shall perform such compliance tests as the Department determines necessary to demonstrate the Stage II system is installed and maintained as required by the terms and conditions of the system's currently applicable Executive Order and shall submit the results to the Department within 14 days of the performance of said tests.

11. Receipt of submittals by the Department shall be as follows:

a. If hand-delivered, the receipt date is the date of the receipt stamp;

b. If mailed, the receipt date is the date of the postmark on the envelope used to submit the document to the Department; or

c. If electronically submitted, the receipt date is the date the electronic submission is sent to the Department.

(d) <u>Stage II System Compliance Testing Requirements</u>. For the purposes of 310 CMR 7.24(6)(c), the following Stage II System compliance tests and requirements shall be required:

1. <u>Vapor Balance Systems</u>. Pressure Decay Test, Vapor Tie Test, P/V Vent Test and Dynamic Pressure/Liquid Blockage Test

2. <u>Vacuum Assist Systems</u>. Pressure Decay Test, Vapor Tie Test, P/V Vent Test, Air-to-Liquid Ratio Test and Dynamic Pressure/ Liquid Blockage Test

3. Healy Systems.

a. Healy 400 ORVR (Executive Order # G-70-186), Healy 400 ORVR Above Ground Storage System (Executive Order # G-70-187) and Franzen-Hill Cargo Tank Truck System (Executive Order # G-70-193):

- i. Pressure Decay Test:
- ii. Vapor Tie Test;
- iii. P/V Vent Test;
- iv. Exhibit 4: Vapor Return Line Vacuum Integrity Test; and
- v. Exhibit 5: Fillneck Vapor Pressure Regulation Fueling Test.

b. Healy 600 (Executive Order # G-70-165):

- i. Pressure Decay Test;
- ii. Vapor Tie Test;
- iii. P/V Vent Test;
- iv. Air-to-liquid Ratio Test; and
- v. Exhibit 4: Vapor Return Line Vacuum Integrity Test.

4. Compliance tests performed to meet the requirements of 310 CMR 7.24(6)(c) shall be performed only by a person or Stage II compliance testing company that has submitted to the Department a Stage II Compliance Testing Company Notification as required by 310 CMR 7.24(6)(g)1.

(e) <u>Notification Requirements</u>.

1. Any person, upon entering into a purchase, lease or other contractual agreement by which said person becomes the owner, operator, lessee or controller of an existing motor vehicle fuel dispensing facility or tank truck subject to 310 CMR 7.24(6) shall submit to the Department, within 30 days of the effective date of becoming such an owner, operator, lessee or controller or within ten days of a written request from the Department, a fully completed New Stage II System Owner, Operator, Lessee or Controller Notification on a form obtained from the Department.

a. Said Notification shall include the following:

i. the name of the new Stage II system owner, operator, lessee or controller and related business documentation, including the name and address of the facility where the Stage II system is located or from which the tank truck is principally operated; and

ii. the effective date said person became the new owner, operator, lessee or controller.

b. Said Notification shall be signed by the individual who is a Responsible Official for the new owner, operator, lessee or controller regarding the Stage II system, who shall attest to the following:

i. I certify that I personally examined the foregoing and am familiar with the information contained in this document and all the attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment;

ii. I am fully authorized to make this attestation on behalf of this facility or tank truck, as applicable.

2. Any person subject to 310 CMR 7.24(6), upon entering into a sale, lease or other contractual agreement by which said person relinquishes his or her authority as an owner, operator, lessee or controller of a facility or tank truck subject to 310 CMR 7.24(6), shall submit to the Department, within 30 days of the effective date of said sale, lease or other contractual agreement, a signed letter notifying the Department of the following:

a. the name of the person relinquishing his or her authority as an owner, operator, lessee or controller of the facility or tank truck subject to 310 CMR 7.24(6), the facility name, DEP Facility Account Number and address or the address from which the tank truck is principally operated, as applicable;

b. the name of the new owner, operator, lessee or controller of the facility or tank truck subject to 310 CMR 7.24(6) and related business information, including the new facility name and address or the address from which the tank truck is principally operated, as applicable; and

c. the effective date of the change of owner, operator, lessee or controller.

3. Any person subject to the requirements of 310 CMR 7.24(6) seeking to permanently or temporarily take out-of-service a motor vehicle fuel dispensing facility or tank truck shall submit to the Department a fully completed and signed Stage II System Closure Notification, on a form obtained from the Department.

a. Said Notification shall include the following:

i. the name of the Stage II facility owner, operator, lessee or controller and related business information, including the name and address of the facility where the Stage II system was located or from which the tank truck was principally operated, as applicable;

ii. the DEP Facility Account Number for the applicable facility or tank truck; and

iii. the date the Stage II system was permanently or temporarily taken out-ofservice, and attached, as applicable, current:

(i) underground storage tank Registration Notification indicating that the status of the tank is Temporarily Out-of-service;

(ii) underground storage tank Notification indicating the that status of the tank is closed (Removed or Closed In-place); or

(iii) local permit documenting Temporarily Out-of-service Status or closure/removal.

b. Any person subject to the requirements of 310 CMR 7.24(6) who temporarily takes out-of-service a motor vehicle fuel dispensing system or tank truck shall, prior to commencing the distribution of motor vehicle fuel, perform and pass all applicable compliance tests and submit to the Department a fully completed Installation/ Substantial Modification Certification as required by 310 CMR 7.24(6)(c)2. or decommission the Stage II system in accordance with 310 CMR 7.24(6)(l).

c. A Stage II system shall not be temporarily out-of-service for more than two years.

d. Any person subject to the requirements of 310 CMR 7.24(6), where the motor vehicle fuel dispensing facility is permanently closed, shall no longer be subject to 310 CMR 7.24(6) as of the effective date the facility was permanently closed as referenced in the required applicable underground storage tank Notification indicating that the status of the tank is closed (Removed or Closed In-place) or local permit for aboveground storage tank documenting closure/removal.

4. Any Notification submitted to the Department as required by 310 CMR 7.24(6)(e) shall be signed by a Stage II System Responsible Official as required by 310 CMR 7.24(6)(f).

(f) <u>Stage II System Responsible Official Certification of Compliance</u>.

1. Except in circumstances described in 310 CMR 7.24(6)(f)2., any Certification or Notification required by 310 CMR 7.24(6)(c) or (e) shall be signed by an individual who is a Responsible Official regarding Stage II system compliance.

2. For Stage II systems owned by one party and leased, operated or controlled by another independent party and where both parties have separate Stage II compliance responsibilities, any Certification or Notification submitted in compliance with the requirements of 310 CMR 7.24(6)(c) or (e) shall be signed by Responsible Officials for each party regarding Stage II system compliance. Each Stage II System Responsible Official shall attest to the following:

i. I certify that I personally examined the foregoing and am familiar with the information contained in this document and all the attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment;

ii. that systems to maintain compliance are in place at the facility or, if applicable, at the location from which the tank truck is principally operated and will be maintained for the coming year even if the processes or operating procedures are changed over the course of the year; and

iii. I am fully authorized to make this attestation on behalf of this facility or tank truck, as applicable.

3. Any person immediately responsible for obtaining information referenced in 310 CMR 7.24(6)(f), who knowingly and willfully makes false, inaccurate, incomplete or misleading statements pursuant to any Certification or Notification required under 310 CMR 7.24(6), may be in violation of 310 CMR 7.24(6). Notwithstanding the previous sentence, any person subject to the requirements of 310 CMR 7.24(6), shall comply with all applicable provisions of 310 CMR 7.24(6).

(g) <u>Compliance Testing Company Requirements</u>.

1. Any person who owns, leases, operates or controls a company that performs Stage II compliance tests to meet the requirements of 310 CMR 7.24(6)(c) shall submit to the Department a fully completed Stage II Compliance Testing Company Notification, on a form obtained from the Department, prior to performing any required Stage II compliance test.

a. the Notification shall include the following:

i. the name and business mailing address of the Stage II compliance testing company owner, operator, lessee or controller;

ii. the name and address of any business that is engaged in the installation or Substantial Modification of Stage II systems and is owned, operated, leased or controlled by, or affiliated with the owner, operator, lessee or controller of the compliance testing company;

iii. the name and address of any motor vehicle fuel dispensing facility or tank truck subject to 310 CMR 7.24(6) that is owned, operated, leased or controlled by, or affiliated with the owner, operator, lessee or controller of the compliance testing company;

iv. the address and telephone number of the facility(ies) from which the daily compliance testing activities of the compliance testing company originate and at which any records required by 310 CMR 7.24(6)(g)10. are maintained;

v. a written description of the employee training systems in place at the compliance testing company to ensure required compliance tests are performed as required by applicable protocols and procedures, pursuant to 310 CMR 7.24(6)(g)6. and 7; and

vi. a list of all Compliance Testing Company Responsible Officials with the authority to sign Compliance Testing Company Certifications on behalf of the compliance testing company.

b. Each Notification shall be signed by an individual who is a Responsible Official regarding the compliance testing company, who shall attest to the following:

i. I certify that I personally examined the foregoing and am familiar with the information contained in this document and all the attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment;

ii. Employee training systems are in place at the company to ensure Stage II compliance tests are performed as required by all applicable protocols and procedures and such training systems will be maintained for the coming year even if the protocols and procedures are changed over the course of the year; and

iii. I am fully authorized to make this attestation on behalf of this Stage II Compliance Testing Company.

2. Any person subject to the requirements of 310 CMR 7.24(6)(g) shall notify the Department in writing of any change to the information submitted to the Department pursuant to 310 CMR 7.24(6)(g)1. within 14 days of the effective date of such change. Upon the Department's written request, the person shall submit a fully revised and completed Notification to the Department as required by the requirements of 310 CMR 7.24(6)(g)1.

3. No person subject to 310 CMR 7.24(6)(g) shall perform any Stage II compliance test unless said person has first been trained in accordance with the applicable compliance test protocols and procedures required by 310 CMR 7.24(6)(g)6. and 7.

4. Any person subject to the requirements of 310 CMR 7.24(6)(g) shall submit, at least once every two weeks, a written list to the Department identifying all motor vehicle fuel dispensing facilities and tank trucks at which the company is scheduled to perform required Stage II compliance test(s) over the next 14 day period.

a. The list shall be organized by Department region and date, and shall include the name and address of each facility or tank truck to be tested, the applicable section under 310 CMR 7.24(6)(c)2., 3., or 4., the required compliance tests to be performed, and the estimated time that the company expects to arrive at the facility location.

b. The Department shall be notified, in writing, of any change of date of an individual facility's scheduled compliance tests no later than 9 A.M. of the day the scheduled test(s) is to occur. Additions to a submitted compliance-testing schedule shall be submitted to the Department, in writing, no less than two working days prior to the date of any scheduled test.

c. Failure to comply with the Notification requirements of 310 CMR 7.24(6)(g) 4. may be a basis for the Department to determine that tests conducted after inadequate notice are invalid.

5. Any person subject to the requirements of 310 CMR 7.24(6)(g) shall immediately notify the Department of any failed Stage II compliance tests performed as required by 310 CMR 7.24(6)(c) if said person did not return to retest the Stage II system as required by 310 CMR 7.24(6)(c)6. or 7. on or before the facility's Annual In-Use Compliance Certification submittal date, or within 30 days of the date of the Stage II system's first passing test result, whichever occurs first. Said person shall notify the Department regarding the name and address of the facility, and the facility's Facility Account Number.

6. Any person subject to 310 CMR 7.24(6)(g) shall perform compliance tests to meet the requirements of 310 CMR 7.24(6)(c) only upon confirmation that:

a. all above ground Stage II system components including, but not limited to: dispensers; nozzles; swivels; hose retractors; hoses; breakaways; vapor check valves; and the pressure/vacuum valve(s) are installed as required and are the correct components as required by the terms and conditions of the system's currently applicable Executive Order; and

b. all motor vehicle fuel dispensing facilities with two or more motor vehicle fuel storage tanks are properly manifolded as required by the terms and conditions of the system's currently applicable Executive Order.

7. Any person subject to 310 CMR 7.24(6)(g), shall perform Stage II compliance tests to meet the requirements of 310 CMR 7.24(6) only in accordance with the applicable test procedures cited below:

a. Pressure Decay Test (Bay Area Air Pollution Control District Source Test Procedure ST-30 (2/6/1991)) and 310 CMR 7.24(6)(g)7.a.: *Table A. Minimum Allowable Pressure.*

Table A. MINIMUM ALLOWABLE PRESSURE (Based on an initial pressure of 10.0" wc.)			
Ullage	Minimum	Ullage	Minimum
(Gal)	Allowable Pressure	(Gal)	Allowable
	("wc)		Pressure ("wc)
500	3.70	6,000	9.38
600	4.50	7,000	9.46
700	5.20	7,500	9.50
800	5.80	8,000	9.52
900	6.20	9,000	9.56
1,000	6.50	10,000	9.60
1,250	7.05	11,000	9.62
1,750	7.90	12,000	9.64
2,000	8.20	13,000	9.66
2,250	8.35	14,000	9.68
2,500	8.50	15,000	9.70
2,750	8.60	16,000	9.71
3,000	8.70	17,000	9.71
3,250	8.80	18,000	9.72
3,500	8.90	19,000	9.73
3,750	9.00	20,000	9.73
4,000	9.10	21,000	9.74
4,250	9.15	22,000	9.75
4,500	9.20	23,000	9.75
4,750	9.25	24,000	9.76
5,000	9.30	25,000	9.77
		30,000	9.80
Note: For a valid test, total	ullage must be at least 500 gallor	ns but no more that	n 30,000 gallons.

b. Underground Piping Check (Vapor Tie) Test (San Diego County Air Pollution Control District Test Procedure TP-96-1, Section 5.1.9).

c. Pressure/Vacuum Vent Test (Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves, CARB TP-201.1E) P/V relief vents shall be tested to be within .29oz/in² or 0.5 inches of water column of the designed pressure and within 1.2oz/in² or 2.0 inches of water column of the vacuum settings.

d. Air-to-liquid Volume Ratio Test (CARB TP-201.5).

e. Dynamic Pressure/Liquid Blockage Test (CARB TP-201.4).

f. Healy 400 ORVR (Executive Order # G-70-186), Healy 400 ORVR Above Ground Storage System (Executive Order # G-70-187) and Franzen-Hill Cargo Tank Truck System (Executive Order # G-70-193).

Exhibit 4: Vapor Return Line Vacuum Integrity Test.

Exhibit 5: Fillneck Vapor Pressure Regulation Fueling Test.

Healy 600 (Executive Order # G-70-165).

Exhibit 4: Vapor Return Line Vacuum Integrity Test.

8. Any person subject to 310 CMR 7.24(6)(g) shall certify to the Department that each compliance test performed to meet the requirements of 310 CMR 7.24(6)(c) was performed as required by 310 CMR 7.24(6)(g)6. and 7. As applicable, the Certification shall be submitted on a Stage II Installation/Substantial Modification Certification, Alternative Annual In-use Compliance Certification, or Annual In-use Compliance Certification and shall include:

- a. the date each compliance test was first performed and the result;
- b. the date each compliance test was performed and passed;
- c. a notation whether:

i. the entire installed Stage II system was tested and passed all applicable compliance tested; or

ii. incorrectly installed, non-functioning or broken components were isolated from the remainder of the installed Stage II system and the remainder of Stage II system was tested and passed all applicable compliance tests; and

d. If the remainder of the Stage II system was tested and passed all applicable compliance tests, as noted in 310 CMR 7.24(6)(g)8.c., identify all components isolated from the remainder of the Stage II system.

9. Each Certification submitted pursuant to 310 CMR 7.24(6)(g)8. shall be fully completed and signed by a Compliance Testing Company Responsible Official, who shall attest to the following:

a. I certify that I personally examined the foregoing and am familiar with the information contained in this document and all the attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment; and

b. I am fully authorized to make this attestation on behalf of this Stage II Compliance Testing Company.

10. Any person subject to 310 CMR 7.24(6)(g) shall maintain the following records on site, for a minimum of five years, at the location(s) referenced on the form submitted pursuant to 310 CMR 7.24(6)(g)1.a.iv:

a. A complete set of records of compliance tests performed to meet the requirements of 310 CMR 7.24(6)(c). Such records shall include, by facility address:

- i. the date and first result for each required test performed;
- ii. the date each test was performed and passed; and
- iii. an itemized list of all Stage II system components re-installed, repaired or replaced as necessary for the system to pass the applicable test(s).

b. A current record of all persons or employees trained as required by 310 CMR 7.24(6)(g)3. Such record shall include the following: i. the date training was received; ii. the person or employee's printed name; and iii. the personal signature of the person or employee acknowledging receipt of required training.

11. All records maintained pursuant to 310 CMR 7.24(6)(g)10. shall be made available to the Department or the US EPA immediately upon the request of either.

(h) Violations of 310 CMR 7.24(6). For any person subject to 310 CMR 7.24(6) it shall be a violation of 310 CMR 7.24(6) to:

1. fail to submit any Certification or Notification required by to 310 CMR 7.24(6) as applicable;

2. make any false, inaccurate, incomplete or misleading statements in any Certification or Notification required by to 310 CMR 7.24(6);

3. make any false, inaccurate, incomplete or misleading statements in any record, report, plan, file, log or register which said person is required to keep pursuant to 310 CMR 7.24(6);

4. hold themselves out as a responsible official in violation of the applicable requirements of to 310 CMR 7.24(6);

- 5. fail to comply with any applicable standards imposed under 310 CMR 7.24(6); or
- 6. violate any other provision of 310 CMR 7.24(6).
- (i) Department Adopted CARB Stage II System Executive Orders.

Number Description

- G-70-7-AD Certification of the Hasstech Model VCP-2 and VCP 2A Phase II Vapor Recovery System.
- G-70-14-AA Recertification of Red Jacket Aspirator Assist Phase II Vapor Recovery System.
- G-70-17-AD Modification of Certification of the Emco Wheaton Balance Phase II Vapor Recovery System.

7.24: continued	
Number	Description (continued)
G-70-18-C	Modification of Certification of the Shell Model 75B1 and 75B1-R3 Service Station Phase II Vapor Recovery System.
G-70-23-AC	Recertification of the Exxon Balance Phase II Vapor Recovery System.
G-70-25-AA	Recertification of the Atlantic Richfield Balance Phase II Vapor Recovery System.
G-70-33-AB	Certification of the Modified Hirt VCS-200 Vacuum Assist Phase II Vapor Recovery System.
G-70-36-AD	Modification of Certification of the OPW Balance Phase II Vapor Recovery System.
G-70-37-В	Modification of the Certification of the Chevron Balance Phase II Vapor Recovery System with OPW nozzles for Service.
G-70-38-AB	Recertification of the Texaco Balance Phase II Vapor Recovery System.
G-70-48-AA	Recertification of the Mobil Oil Balance Phase II Vapor Recovery System.
G-70-49-AA	Recertification of the Union Balance Phase II Vapor Recovery System.
G-70-52-AM	Certification of Components for Red Jacket, Hirt and Balance Phase II Vapor
	Recovery System.
G-70-53-AA	Recertification of the Chevron Balance Phase II Vapor Recovery System.
G-70-77	Certification of the OPW Repair/Replacement Parts and Modification of the Certification of the OPW Balance Phase II Vapor Recovery System.
G-70-78	Certification of the E-Z Flo Nozzle Company Rebuilt Vapor Recovery Nozzles and Vapor Recovery Components.
G-70-101-B	Certification of the E-Z Flo Model 3006 and 3007 Vapor Recovery Nozzles and Use of E-Z Flo Components with OPW Models 11VC and 11 VE Vapor Recovery Nozzles.
G-70-107	Certification of Rainbow Petroleum Products Model RA3003, RA3005, RA3006 and RA3007 Vapor Recovery Nozzles and Vapor Recovery Components.
G-70-110	Certification of Stage I and II Vapor Recovery Systems for Methanol Fueling Facilities.
G-70-118-AB	Certification of Amoco V-1 Vapor Recovery System.
G-70-125-AA	Modification of the Certification of the Husky Model V Phase II Balance Vapor Recovery Nozzle.
G-70-127	Certification of the OPW Model 111-V Phase Vapor Recovery Nozzle.
G-70-134	Certification of the EZ Flo Rebuilt A-4000 Series and 11V-Series Vapor Recovery System.
G-70-139	Addition to the Certification of the Hirt Model VCS-200 Phase II Vapor Recovery System.
G-70-150-AE	Modification of the Certification of the Gilbarco VaporVac Phase II Vapor Recovery System.
G-70-153-AD	Modification to the Certification of the Dresser/Wayne WayneVac Phase II Vapor Recovery System.
G-70-154-AA	Modification to the Certification of the Tokheim MaxVac Phase II Vapor Recovery System.
G-70-159-AB	Modifiaction of the Certification of the Saber Nozzle for Use with the Gilbarco VaporVac Phase II Vapor Recovery System.
G-70-163-AA	Certification of the OPW VaporEZ Phase II Vapor Recovery System.
G-70-164-AA	Modification to the Certification of the Hasstech VCP-3A Vacuum Assist Phase II Vapor Recovery System.
G-70-165	Healy Vacuum Assist Phase II Vapor Recovery System.
G-70-169-AA	Modification to the Certification of the Franklin Electric INTELLIVAC Phase II
	Vapor Recovery System.
G-70-170	Certification of the EZ-flo Rebuilt 5005 and 5015 for use with the Balance Phase II Vapor Recovery System.
G-70-177-AA	Certification of the VCS400-7 Vacuum Assist Phase II Vapor Recovery System.
G-70-179	Certification of the Catlow ICVN-V1 Vacuum Assist Phase II Vapor Recovery System.
G-70-180	Order Revoking Certification of the Healy Phase II Vapor Recovery Systems for Gasoline Dispensing Systems.
G-70-183-AA	Certification of the Healy/Franklin Vacuum Assist Phase II Vapor Recovery System.
G-70-186	Certification of the Healy Model 400 ORVR Vapor Recovery System.
G-70-188	Certification of the Catlow ICVN Vapor Recovery Nozzle System for use with the Gilbarco VaporVac Vapor Recovery System.

7.24: continued	
Number	Description (continued)
G-70-191AA	Healy/Franklin VP-1000 Vapor Pump Phase II Vapor Recovery System(Healy ORVR Phase II Vapor Recovery System).
G-70-196	Certification of the Saber Technologies, LLC SaberVac VR Phase II Vapor Recovery System
G-70-199-AJ	Certification of the Gasoline Dispensing Nozzles to the Liquid Retention of 350 milliliters per 1,000 Gallons Dispensed.
VR-201-A	Healy System Inc. Phase II Enhanced Vapor Recovery (EVR) System Not Including ISD
EVR-202-A G-70-204-A	Healy Phase II Enhanced Vapor Recovery System Including Veeder-Root ISD System Certification of the Gilbarco VaporVac/OPW Vaporsaver ORVR-Compatible System
	(j) Department Adopted Carb Stage Ii System Executive Orders for Aboveground Storage Tank Vapor Recovery Systems.
Number	Description
G-70-102-A	Certification of a Phase I Vapor Recovery System for Aboveground Storage Tanks with less than 40,000 Gallons Capacity for Gasoline or Gasoline/Methanol Blended Fuels
G-70-116-F	ConVault Aboveground Tank Vapor Recovery System
G-70-128	Bryant Fuel Cell Aboveground Tank Vapor Recovery System
G-70-130A	Petrovault Aboveground Tank Vapor Recovery System
G-70-131A	Tank Vault Aboveground Tank Vapor Recovery System
G-70-132-A	Supervault Aboveground Tank Vapor Recovery System
G-70-132-B	Supervault Aboveground Tank Vapor Recovery System
G-70-136	FireSafe Aboveground Tank Vapor Recovery System
G-70-137	FuelSafe Aboveground Tank Vapor Recovery System
G-70-138	Phase II Vapor Recovery Systems Installed on Gasoline Bulk Plants/Dispensing Facilities with Aboveground Tanks
G-70-139	Addition to the Certification of the Hirt Model VCS-200 Phase II Vapor Recovery System
G-70-140-A	Integral Phase I and Phase II Aboveground Tank Configurations with the Healy Phase II Vapor Recovery System
G-70-142-B	Phase I Vapor Recovery System for Aboveground Gasoline Storage Tanks
G-70-143	P/T Vault Aboveground Tank Vapor Recovery System
G-70-147-A	New United Motors Manufacturing, Incorporated Phase II Vapor Recovery System at the Fremont, California Assembly Plant
G-70-148-A	Lube Cube Aboveground Tank Vapor Recovery System
G-70-152	Moiser BrothersTanks and Manufacturing Aboveground Tank Vapor Recovery System
G-70-155	Petroleum Marketing Aboveground Tank Vapor Recovery System
G-70-156	Ecovault Aboveground Tank Vacuum Assist Vapor Recovery System
G-70-157	Ecovault Aboveground Tank Balance Vapor Recovery System
G-70-158-A	Firesafe Aboveground Tank Vapor Recovery System
G-70-160	Aboveground Tank Vault Vapor Recovery System
G-70-161	Hoover Containment Systems, Incorporated Fuelmaster Aboveground Tank Vapor
~ ~ ~ ~ ~ ~	Recovery System
G-70-162-A	Steel Tank Institute Fireguard Aboveground Tank Vapor Recovery System
G-70-167	EnviroVault Aboveground Tank Vapor Recovery System
G-70-168	Bryant Fuel Systems Phase I Vapor Recovery System
G-70-175	Hasstech VCP-3A Vacuum Assist Phase II Vapor Recovery System for Aboveground Tank Systems
G-70-181	Hirt VCS400-7 Bootless Nozzle Phase II Vapor Recovery System for Aboveground Storage Tank Systems
G-70-187	Healy Model 400 ORVR Vapor Recovery System for Aboveground Tank Systems
G-70-190	Guardian Containment, Corporation Armor Cast Aboveground Tank Vapor Recovery System
G-70-192	Certification of the Healy Model 400 ORVR Nozzle for Existing Aboveground Storage Tank Systems

Number	Description (continued)
G-70-193	Certification of the Hill-Vac Vapor Recovery System for Cargo Tank Motor Vehicle Fueling Systems
G-70-194	Containment Solutions Hoover Vault Aboveground Tank Vapor Recovery System
G-70-195	Cretex Companies, Inc FuelVault Aboveground Tank Vapor Recovery System
G-70-197	Synchrotek Fastflo 3 Phase II Vapor Recovery System
G-70-200	Oldcastle Aboveground Below-grade Fuel Vault with Balance Vapor Recovery System and Buried Vapor Return Piping
G-70-201	Oldcastle Aboveground Below-grade Fuel Vault with Balance Vapor Recovery System and Trenched Vapor Return Piping
G-70-202	Oldcastle Aboveground Below-grade Fuel Vault with Gilbarco VaporVac Phase II Recovery System and Trenched Vapor Return Piping
	 (k) The provisions and requirements of 310 CMR 7.24(6)(a) and (b) are subject to the enforcement provisions specified in 310 CMR 7.52. (1) Decommissioning.
	 Any person subject to 310 CMR 7.24(6) shall decommission an installed Stage II Vapor Recovery System only in accordance with the following requirements: a. Decommissioning will be done in accordance with the PEI Recommended Practices for Installation and Testing of Vapor Recovery Systems at Vehicle-fueling Sites, PEI/RP300-09, Section 14, Decommissioning Stage II Vapor Recovery Piping; and b. If not already installed, a California Air Resources Board Enhanced Vapor Recovery (CARB EVR) Pressure Vacuum Vent Valve and CARB EVR rotatable product and vapor adaptors as described in the CARB Executive Orders listed in 310 CMR 7.24(6)(1) b: Table 1 and Table 2 shall be installed. Rotatable

Recovery (CARB EVR) Pressure Vacuum Vent Valve and CARB EVR rotatable product and vapor adaptors as described in the CARB Executive Orders listed in 310 CMR 7.24(6)(1)1.b.: *Table 1.* and *Table 2.* shall be installed. Rotatable adaptors shall not be required for aboveground storage tanks and coaxial Stage I systems.

 Table 1.

 CARB Underground Storage Tank Enhanced Vapor Recovery System Executive Orders

Executive Order Number	Description	Date
VR-101-N	Phil-Tite Phase I Vapor Recovery System.	June 8, 2013
VR-102-O	OPW Phase I Vapor Recovery System.	October 3, 2014
VR-103-G	EBW Phase I Vapor Recovery System.	June 3, 2013
VR-104-G	CNI Manufacturing Phase I Vapor Recovery System.	June 8, 2013
VR-105-D	EMCO Wheaton Phase I Vapor Recovery System	August 27, 2014

 Table 2.

 CARB Aboveground Storage Tank Enhanced Vapor Recovery System Executive Orders

Executive Order Number	Description	Date
VR-301-F	Standing Loss Control of Vapor Recovery Systems for Existing Installations of Aboveground Storage Tanks	June 3, 2014
VR-302-F	Standing Loss Control of Vapor Recovery Systems for New Installations of Aboveground Storage Tanks	June 3, 2014
VR-401-D	OPW Enhanced Vapor Recovery (EVR) System for Above Ground Storage Tanks (AST)	May 12, 2014
VR-402-B	Morrison Brothers Phase I Enhanced Vapor Recovery (EVR) System for Above Ground Storage Tanks (AST)	April 15, 2013
G-70-216	Extension of Executive Orders for Existing Above Ground Storage Tanks	March 13, 2014

2. Prior to re-commencing operations following decommissioning, the following compliance tests, as applicable, shall be performed:

a. Pressure Decay two inch Test (CARB TP-201.3; March 17, 1999);

b. Vapor Tie Test (San Diego APCD TP-96-1, section 5.1.9; March 1, 1996);

c. Pressure/Vacuum Vent Valve Test (CARB TP-201.1E; October 8, 2003);

d. Static Torque Rotatable Adaptor Test (CARB TP-201.1B; October 8, 2003), if rotatable adaptors are installed; and as applicable, either:

e. Leak Rate of Drop Tube/Drain Valve Assembly Test (CARB TP-201.1 C; October 8, 2003); or

f. Leak Rate of Drop Tube/Overfill Prevention Devices (CARB T-201.1D; October 8, 2003).

3. If a facility fails any of the tests cited in 310 CMR 7.24(6)(1)2, the failed component shall be replaced with a comparable CARB EVR component.

4. Prior to re-commencing operations following decommissioning, a fully completed and signed Stage II Decommissioning Notification, including a copy of PEI Decommissioning Checklist and passing test results for all applicable compliance tests, shall be submitted to the Department.

(7) Oxygenated Gasoline Composition and Use.

(a) <u>Applicability</u>.

1. 310 CMR 7.24(7) applies to any person who owns, leases, operates, or controls one or more of the following in the Commonwealth of Massachusetts as defined in 310 CMR 7.00:

- a. Bulk plants;
- b. Bulk terminals;
- c. Tank trucks subject to 310 CMR 7.24(4);
- d. Gasoline marketing facilities; or
- e. Motor vehicle fuel dispensing facilities.

2. If the Department verifies a violation of the eight hour carbon monoxide National Ambient Air Quality Standard within Boston, Cambridge, Chelsea, Everett, Malden, Medford, Quincy, Revere or Somerville, in the next applicable oxygenated gasoline control period, no person subject to 310 CMR 7.24(7)(a)1. shall provide, offer for sale, use, sell, or exchange in trade any gasoline in the oxygenated gasoline control area, during the oxygenated gasoline control period, which is not oxygenated gasoline, except where an emergency exemption has been issued by the Department pursuant to 310 CMR 7.24(7)(g).

3. Such limitations shall not apply to the offer, provision, sale, or exchange of gasoline not meeting the requirements of 310 CMR 7.24(7)(a)2. by subject bulk plants, bulk terminals, or tank trucks during the oxygenated gasoline control period to gasoline marketing facilities or motor vehicle fuel dispensing facilities located outside the oxygenated gasoline control area.

(b) <u>Compliance Testing</u>.

1. Any person who owns, leases, operates, or controls a bulk plant or bulk terminal subject to 310 CMR 7.00 shall conduct gasoline testing for the purposes of compliance with the requirements of 310 CMR 7.24(7). Such compliance testing shall include but not be limited to:

- a. determination of the oxygenate content by weight of gasoline;
- b. the percent oxygen content by weight; and
- c. the oxygenate type(s) utilized to satisfy the requirements of 310 CMR 7.00.

2. Bulk plants and bulk terminals subject to 310 CMR 7.24(7) which receive oxygenated gasoline such that no additional blending of oxygenates occurs for the purpose of compliance with 310 CMR 7.00, shall conduct compliance testing upon receipt of each delivery of such oxygenated gasoline.

3. Bulk plants and bulk terminals subject to 310 CMR 7.24(7) which blend oxygenates with gasoline for the purpose of compliance with 310 CMR 7.24(7), shall conduct compliance testing upon the transfer of every 1,000,000 gallons of oxygenated gasoline from said bulk plant or bulk terminal to subject tank trucks, or more frequently if so required by the Department.

(c) <u>Methods for Sampling, Testing, and Calculating Oxygen Content.</u>

1. Any person determining the oxygen content by weight of gasoline shall use the values listed in Table 7.24(7)(c)1., and the methods identified in 310 CMR 7.24(7)(c)2., 3., and 4. All volume measurements shall be adjusted to 60° F.

2. Any person determining the oxygen content by weight of gasoline shall obtain a representative sample in accordance with the US Environmental Protection Agency's (EPA) sampling method as detailed in Title 40 CFR Part 80, Appendix D or any other sampling method approved by the Department and EPA.

3. Any person determining the oxygen content by weight of gasoline shall determine the mass concentration of each oxygenate in the sample by one of the following methods:

a. ASTM Method 4815 (Standard Test Method For Determination of C1 to C4 Alcohols and MTBE in Gasoline by Gas Chromatography); or

b. Appendix C to EPA's Notice of Guidelines for Oxygenated Gasoline Credit Programs; or

c. Any other method approved by the Department and EPA.

4. Any person determining the oxygen content by weight of gasoline shall use the oxygen content conversion methodology contained in EPA's Notice of Guidelines for Oxygenated Gasoline Credit Programs.

TABLE 7.24(7)(c) - 1

SPECIFIC GRAVITY AND WEIGHT FRACTION OXYGEN OF COMMON OXYGENATES

Oxygenate	Weight Fraction Oxygen	Specific Gravity
Methyl alcohol	0.4993	0.7963
Ethyl alcohol	0.3473	0.7939
Normal propyl alcohol	0.2662	0.8080
Isopropyl alcohol	0.2662	0.7899
Normal butyl alcohol	0.2158	0.8137
Isobutyl alcohol	0.2158	0.8058
Secondary butyl alcohol	0.2158	0.8114
Tertiary butyl alcohol	0.2158	0.7922
Methyl tertiary butyl ether (MTBE)	0.1815	0.7460
Tertiary amyl methyl ether (TAME)) 0.1566	0.7752
Ethyl tertiary butyl ether (ETBE)	0.1566	0.7452
Di-isopropyl ether (DIPE)	0.1566	0.7300

(d) <u>Record Keeping</u>.

1. All records and documentation maintained in compliance with 310 CMR 7.24(7)(d)2., 3., and 4. shall be retained on site, or, upon the written agreement from the Department, in a centralized location, for not less than two calendar years, and shall be made available for review upon request of the Department.

Any person who owns, leases, operates, or controls a bulk plant or bulk terminal subject to 310 CMR 7.24(7) shall maintain records containing the following information:

 a. Results of all compliance testing, including the test method and sampling procedure, and the name and address of the person performing such testing.

b. All transfer documents specified in 310 CMR 7.24(7)(e)1.

3. Any person who owns, leases, operates, or controls a tank truck subject to 310 CMR 7.24(7) shall maintain records containing the following information:

a. All transfer documents specified in 310 CMR 7.24(7)(e)1.

b. All transfer documents specified in 310 CMR 7.24(7)(e)2.

4. Any person who owns, leases, operates, or controls a gasoline marketing facility or motor vehicle fuel dispensing facility subject to 310 CMR 7.00 shall maintain records containing the following information:

All transfer documents specified in 310 CMR 7.24(7)(e)2.

(e) <u>Transfer Documents</u>.

1. Any person who owns, leases, operates, or controls a bulk plant or bulk terminal subject to 310 CMR 7.24(7) shall provide a transfer document for the purposes of documenting each transfer of oxygenated gasoline from said plant or terminal to a subject tank truck. Said transfer document may consist of an invoice, bill of lading, shipping paper or other documentation, and shall include, but need not be limited to, the following information:

a. a statement that the oxygenated gasoline transferred complies with the requirements of 310 CMR 7.24(7)(a)2.;

b. the date and quantity of oxygenated gasoline transferred;

c. the name and address of the person owning, leasing, operating, or controlling said bulk plant or bulk terminal from which oxygenated gasoline is transferred; and

d. The name and address of the person owning, leasing, operating, or controlling said tank truck to which oxygenated gasoline is transferred.

2. Any person who owns, leases, operates, or controls a tank truck subject to 310 CMR 7.24(7) shall provide a transfer document for the purposes of documenting each transfer of oxygenated gasoline from said tank truck to a subject gasoline marketing facility or motor vehicle fuel dispensing facility. Said transfer document may consist of an invoice, bill of lading or other documentation, and shall include, but need not be limited to, the following information:

a. a statement that the oxygenated gasoline transferred complies with the requirements of 310 CMR 7.24(7)(a)2.;

b. the date and quantity of oxygenated gasoline transferred;

c. the name and address of the person owning, leasing, operating, or controlling said tank truck from which oxygenated gasoline is transferred; and

d. The name and address of the person owning, leasing, operating, or controlling said gasoline marketing facility or motor vehicle fuel dispensing facility to which oxygenated gasoline is transferred.

(f) Dispenser Labeling.

1. Each gasoline marketing facility or motor vehicle fuel dispensing facility subject to 310 CMR 7.24(7)(f) shall permanently affix a label to each gasoline dispensing device as specified in 310 CMR 7.24(7)(f)2.

2. The label shall state the following: "From November 1st through the last day of February, the gasoline dispensed from this pump is oxygenated and will reduce carbon monoxide pollution from motor vehicles."

- 3. Any label required pursuant to 310 CMR 7.24 shall be:
 - a. Posted on the upper ¹/₃, of the pump or dispenser unit face which depicts the volume and cost of gasoline dispensed, such that the label is clear, conspicuous, and easily readable to a driver in the vehicle to which gasoline may be dispensed; and
 - b. Is clearly legible and in block letters that are:
 - i. No less than 20-point bold type; and
 - ii. In a color that contrasts with the background on which they are placed.

(g) <u>Emergency Exemption</u>.

1. In extreme and unusual circumstances, such as a natural disaster or other event outside of the control of the applicant, such that the applicant has an insufficient supply of oxygenated gasoline, and which could not have been avoided by the exercise of prudence, diligence, and due care the Department may approve an application for an emergency exemption if the applicant demonstrates, in writing, to the Department's satisfaction that:

a. the emergency exemption is in the public interest;

b. the applicant has exercised prudent planning and was not able to avoid the insufficient supply of oxygenated gasoline and has taken all reasonable steps to minimize the extent of the insufficient supply of oxygenated gasoline;

c. the applicant can show how the requirements for oxygenated gasoline will be expeditiously met; and

d. the applicant will not incur a financial gain from the granting of such an emergency exemption.

2. The Department may elect to hold a public hearing on any request for an emergency exemption.

3. No person who applies, in writing, for an emergency exemption shall provide, offer for sale, sell, or exchange in trade any gasoline other than oxygenated gasoline during the oxygenated gasoline control period in the oxygenated gasoline control area without the written approval of the Department.

4. An emergency exemption issued by the Department shall not exceed 30 days. Said exemption may be renewed by the Department upon written demonstration of need, consistent with the requirements of 310 CMR 7.24(7)(g).

Any person to whom the Department has issued an emergency exemption shall:
 a. Only provide, offer for sale, sell, or exchange in trade gasoline with an oxygen content of at least 2% by weight during the oxygenated gasoline control period;
 b. Maintain records required by 310 CMR 7.24(7)(d)1. documenting the quantity of gasoline sold or transferred each day; and

c. Within 30 days of the end of the emergency exemption, submit a report to the Department in writing summarizing the information contained in such records.

- (h) The provisions of 310 CMR 7.24(7) may be enforced pursuant to 310 CMR 7.52.
- (8) Marine Volatile Organic Liquid Transfer.

(a) <u>Applicability</u>. 310 CMR 7.24(8) applies to any person who owns, leases, operates, or controls a marine terminal or marine tank vessel which:

 takes part in a loading event which transfers an organic liquid, or in which any liquid is transferred into a marine vessel cargo tank which previously held an organic liquid; or,
 which performs ballasting or cleaning operations on a cargo tank which previously

held organic liquid while the vessel is moored at a dock or other permanent stationary structure. The provisions of 310 CMR 7.24(8) do not apply to lightering operations.

(b) <u>Reasonably Available Control Technology (RACT) Requirements</u>. On or after May 31, 1995 no person subject to 310 CMR 7.24(8) shall cause, suffer, allow, or permit emissions of volatile organic compounds in excess of the emissions limitations and standards set forth in 310 CMR 7.24(8)(c) through (e).

(c) <u>RACT Emissions Limitations</u>.

1. No person subject to 310 CMR 7.24(8) shall cause, suffer, allow, or permit a loading event while docked at a marine terminal unless:

a. marine tank vessel emissions of volatile organic compounds are limited to two lbs per 1,000 bbls of organic liquid transferred (5.7 grams per cubic meter); or,

b. marine tank vessel emissions of volatile organic compounds are processed by equipment satisfying 310 CMR 7.24(8)(d), and reduced by at least 95% by weight as compared to uncontrolled conditions when using a recovery device, or by at least 98% by weight as compared to uncontrolled conditions when using a combustion device; and,

c. the organic material storage tanks at the marine terminal to be used during the loading event meet the requirements of 310 CMR 7.24(1).

2. Marine tank vessel emissions resulting from ballasting or cleaning of cargo tanks are subject to the emissions limitations of 310 CMR 7.24(8)(c)1. only if emissions capture and control equipment is installed at the marine terminal.

(d) <u>Emissions Capture and Control Equipment Requirements</u>. Any emissions capture and control equipment used to comply with 310 CMR 7.24(8)(c) shall be designed and operated to collect and control volatile organic compound emissions from the loading of organic liquids into marine tank vessels or from ballasting and cleaning cargo tanks which previously held an organic liquid.

(e) Equipment Performance Standards.

1. No person subject to 310 CMR 7.24(8) shall cause, suffer, allow, or permit a loading event unless the marine tank vessel is vapor tight or the tank vessel is loaded at less than atmospheric pressure.

2. Marine tank vessels shall be demonstrated to be vapor tight by one of the following: a. present a copy of the vapor-tightness pressure test documentation for the marine tank vessel prior to loading. The date listed on the documentation must be within the 12 months preceding the date of demonstration, and the test must be conducted in accordance with the procedures specified in Section 63.565(c)(1) of 40 CFR Part 63, Subpart Y; or

b. present a copy of the vapor-tightness leak test documentation for the marine tank vessel prior to loading. The date listed on the documentation must be within the 12 months preceding the date of demonstration, and the test must be conducted in accordance with the procedures in Method 21 of 40 CFR Part 60 Appendix A; or

c. perform a leak test during the loading event in accordance with the procedures in Method 21 of 40 CFR Part 60 Appendix A.

(f) <u>Plan Submittal Requirements</u>. Any person subject to 310 CMR 7.24(8) must submit an emission control plan for approval by the Department which satisfies the requirements of 310 CMR 7.18(20)(c). This provision does not apply to any person who is subject to 310 CMR 7.24(8), and who has received written approval from the Department under 310 CMR 7.02, 310 CMR 7.18(17), or 310 CMR 7.18(20) for emission capture and control equipment which satisfies the requirements of 310 CMR 7.24(8).

(g) <u>Recordkeeping Requirements</u>. Any person subject to 310 CMR 7.24(8) shall prepare and maintain records regarding each loading event sufficient to demonstrate compliance with 310 CMR 7.24(8)(c) through (e). Records kept to demonstrate compliance shall be kept on site for five years and shall be made available to representatives of the Department or EPA. Such records shall include, but are not limited to:

- 1. The name and location of the marine terminal at which the loading event occurred.
- 2. The company responsible for the operation of the marine terminal.

3. The date(s) and times at which the marine tank vessel arrived and departed from the marine terminal.

- 4. The name, registry, and owner of the marine tank vessel.
- 5. The prior cargo carried by the marine tank vessel.
- 6. The type and amount of organic liquid loaded into the tank vessel.
- 7. The condition of the tanks prior to being loaded (e.g., cleaned, gas freed, etc).

8. Description of the operating procedure used to control emissions while ballasting into unsegregated ballast tanks (associated with unloading or other events).

- 9. Any testing performed during loading.
- 10. Any leaks detected and the repair action taken.
- (h) <u>Testing Requirements</u>.

1. Any person subject to 310 CMR 7.24(8) who owns or operates a marine terminal shall, upon startup of the emission control equipment, conduct initial performance tests to demonstrate compliance with 310 CMR 7.24(8). Testing shall be conducted in accordance with EPA Method 21 and Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA.

(i) Monitoring Requirements.

1. Any person subject to 310 CMR 7.24(8) who installs and operates emission control equipment to meet the emission limitations in 310 CMR 7.24(8)(c) must monitor the emission control equipment in accordance with the procedures specified in §§ 63.564(e) through (j) of 40 CFR 63 Subpart Y.

2. Any person subject to 310 CMR 7.24(8) who owns or operates a marine terminal shall, upon the request of the Department, conduct tests of the emission control equipment, to demonstrate compliance with 310 CMR 7.24(8). Testing shall be conducted in accordance with EPA Method 21 and Method 25 as described in CFR Title 40 Part 60, or by other methods approved by the Department and EPA.

3. The owner or operator of any marine terminal shall notify the Department in writing of the date of any test to demonstrate compliance with the emission limitations of 310 CMR 7.24(8)(c)1. at least 30 days in advance of that date. Testing results shall be submitted to the Department within 30 days of completion of the test. Testing results shall also be maintained at the marine terminal for a period of five years.

7.25: U Best Available Controls for Consumer and Commercial Products

(1) <u>Purpose</u>. 310 CMR 7.25 applies to and sets forth requirements for the control of volatile organic compound emissions from the use of consumer and commercial products as defined in Title I Part D Subpart 2 Section 183(e)(1)(B) of the federal Clean Air Act.

[(2) through (10): Reserved]

(11) Architectural and Industrial Maintenance (AIM) Coatings.

(a) <u>Applicability</u>.

1. Except as provided in 310 CMR 7.25(11)(a)2., the requirements of 310 CMR 7.25(11) apply to any person who, on or after January 1, 2009, supplies, sells, offers for sale, blends for sale, or manufactures any architectural coating listed in 310 CMR 7.25(11)(b) for use within Massachusetts, as well as any person who applies or solicits the application of any architectural coating within Massachusetts.

2. The provisions of 310 CMR 7.25(11) do not apply to any person who supplies, sells, offers for sale, blends for sale, or manufactures any architectural coating that is for exclusive use outside of Massachusetts.

(b) <u>Definitions</u>. Terms used in 310 CMR 7.25 are defined at 310 CMR 7.00: *Definitions* or in 310 CMR 7.25. Where a term is defined in both 310 CMR 7.00: *Definitions* and in 310 CMR 7.25, the definition in 310 CMR 7.25 shall apply.

<u>AEROSOL COATING PRODUCT</u> means an aerosol coating product containing pigments or resins that is packaged in a disposable can for hand-held application, or for use in specialized equipment for ground traffic/marking applications.

<u>ANTENNA COATING</u> means a coating labeled and formulated exclusively for application to equipment and associated structural appurtenances that are used to receive or transmit electromagnetic signals.

<u>ANTIFOULING COATING</u> means a coating labeled and formulated for application to submerged stationary structures and their appurtenances to prevent or reduce the attachment of marine or freshwater biological organisms. To qualify as an antifouling coating, the coating must be registered with both the U.S. EPA under the Federal Insecticide, Fungicide and Rodenticide Act (7 U.S.C. § 136 *et seq.*) and with the under the Massachusetts Pesticide Control Act.

<u>APPURTENANCE</u> means any accessory to a stationary structure coated at the site of installation, whether installed or detached, including but not limited to: bathroom and kitchen fixtures; cabinets; concrete forms; doors; elevators; fences; hand railings; heating equipment, air conditioning equipment, and other fixed mechanical equipment or stationary tools; lampposts; partitions, pipes and piping systems; rain gutters and downspouts; stairways; fixed ladders; catwalks and fire escapes; and window screens.

<u>ARCHITECTURAL COATING</u> means a coating to be applied to stationary structures or the appurtenances at the site of installation, to portable buildings at the site of installation, to pavements, or to curbs. Coatings applied in shop applications or to nonstationary structures such as airplanes, ships, boats, railcars, and automobiles, and adhesives are not considered architectural coatings for the purposes of 310 CMR 7.25.

<u>ASTM</u> means the American Society for Testing and Materials.

BAAQMD means Bay Area Air Quality Management District of the State of California.

<u>BITUMENS</u> means black or brown materials including, but not limited to, asphalt, tar, pitch, and asphaltite that are soluble in carbon disulfide, consist mainly of hydrocarbons, and are obtained from natural deposits or as residues from the distillation of crude petroleum or coal.

<u>BITUMINOUS ROOF COATING</u> means a coating that incorporates bitumens that is labeled and formulated exclusively for roofing.

<u>BITUMINOUS ROOF PRIMER</u> means a primer that incorporates bitumens that is labeled and formulated exclusively for roofing.

BOND BREAKER means a coating labeled and formulated for application between layers of concrete to prevent a freshly poured top layer of concrete from bonding to the layer over which it is poured.

<u>CALCIMINE RECOATER</u> means a flat solvent-borne coating formulated and recommended specifically for recoating calcimine-painted ceilings and other calcimine-painted substrates.

<u>CARB</u> means the California Air Resources Board.

<u>CLEAR BRUSHING LACQUERS</u> means clear wood finishes, excluding clear lacquer sanding sealers, formulated with nitrocellulose or synthetic resins to dry by solvent evaporation without chemical reaction and to provide a solid, protective film, which are intended exclusively for application by brush and which are labeled as specified in 310 CMR 7.25(11)(d)3.

<u>CLEAR WOOD COATINGS</u> means clear and semi-transparent coatings, including lacquers and varnishes, applied to wood substrates to provide a transparent or translucent solid film.

<u>COATING</u> means a material applied onto or impregnated into a substrate for protective, decorative, or functional purposes. Such materials include, but are not limited to, paints, varnishes, sealers, and stains.

<u>COLORANT</u> means a concentrated pigment dispersion in water, solvent, and/or binder that is added to an architectural coating after packaging in sale units to produce the desired color.

<u>CONCRETE CURING COMPOUND</u> means a coating labeled and formulated for application to freshly poured concrete to retard the evaporation of water.

<u>CONCRETE SURFACE RETARDER</u> means a mixture of retarding ingredients such as extender pigments, primary pigments, resin, and solvent that interact chemically with the cement to prevent hardening on the surface where the retarder is applied, allowing the retarded mix of cement and sand at the surface to be washed away to create an exposed aggregate finish.

<u>CONSUMER</u> means any person who purchases or acquires any product for personal, family, household, or institutional use. Persons acquiring a product for resale are not consumers for that product.

<u>CONVERSION VARNISH</u> means a clear acid curing coating with an alkyd or other resin blended with amino resins and supplied as a single component or two-component product. Conversion varnishes produce a hard, durable, clear finish designed for professional application to wood flooring. The film formation is the result of an acid-catalyzed condensation reaction, affecting a transetherification at the reactive ethers of the amino resins.

<u>DATE-CODE</u> means the day, month and year on which the product was manufactured, filled, or packaged, or a code indicating such a date.

<u>DRY FOG COATING</u> means a coating labeled and formulated only for spray application such that overspray droplets dry before subsequent contact with incidental surfaces in the vicinity of the surface coating activity.

<u>EXEMPT COMPOUND</u> a compound identified as exempt under the definition of Volatile Organic Compound (VOC), under 310 CMR 7.25(11)(b). Exempt compounds content of a coating shall be determined by U.S. EPA Method 24 or South Coast Air Quality Management District (SCAQMD) Method 303-91 (Revised August 1996).

<u>FAUX FINISHING COATING</u> means a coating labeled and formulated as a stain or a glaze to create artistic effects including, but not limited to, dirt, old age, smoke damage, and simulated marble and wood grain.

<u>FIRE-RESISTIVE COATING</u> means an opaque coating labeled and formulated to protect structural integrity by increasing the fire endurance of interior or exterior steel and other structural materials, that has been fire tested and rated by a testing agency and approved by building code officials for use in bringing assemblies of structural materials into compliance with federal, state, and local building code requirements. The fire-resistive coating and the testing agency shall have been approved by building code officials. The fire-resistive coating shall be tested in accordance with ASTM Designation E 119-98.

<u>FIRE-RETARDANT COATING</u> means a coating labeled and formulated to retard ignition and flame spread, that has been fire tested and rated by a testing agency approved by building code officials for use in bringing building and construction materials into compliance with federal, state, and local building code requirements. Building code officials shall have been approved the fire-retardant coating and the testing agency. The fire-retardant coating shall be tested in accordance with ASTM Designation E 84-99.

<u>FLAT COATING</u> means a coating that is not defined under any other definition in 310 CMR 7.25 and that registers gloss less than 15 on an 85° meter or less than five on a 60° meter according to ASTM Designation D 523-89 (1999).

<u>FLOOR COATING</u> means an opaque coating that is labeled and formulated for application to flooring, including, but not limited to, decks, porches, steps, and other horizontal surfaces that may be subjected to foot traffic.

<u>FLOW COATING</u> means a coating labeled and formulated exclusively for use by electric power companies or their subcontractors to maintain the protective coating systems present on utility transformer units.

<u>HIGH-TEMPERATURE COATING</u> means a high performance coating labeled and formulated for application to substrates exposed continuously or intermittently to temperatures above 204°C.

<u>IMPACTED IMMERSION COATING</u> means a high performance maintenance coating formulated and recommended for application to steel structures subject to immersion in turbulent, debris-laden water. These coatings are specifically resistant to high-energy impact damage caused by floating ice or debris.

<u>INDUSTRIAL MAINTENANCE COATING</u> means high performance architectural coating, including primers, sealers, undercoaters, intermediate coats, and topcoats, formulated for application to substrates exposed to one or more of the following extreme environmental conditions listed in a. through e., and labeled as specified in 310 CMR 7.25(11)(d)2.:

(a) Immersion in water, wastewater, or chemical solutions (aqueous and non-aqueous solutions), or chronic exposures of interior surfaces to moisture condensation;

(b) Acute or chronic exposure to corrosive, caustic, or acidic agents, or to chemicals, chemical fumes, or chemical mixtures or solutions;

- (c) Repeated exposure to temperatures above 121°C (250°F);
- (d) Repeated heavy abrasion, including mechanical wear and frequently repeated scrubbing with industrial solvents, cleansers, or scouring agents; or
- (e) Exterior exposure of metal structures and structural components.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

7.25: continued

<u>LABEL</u> means any written, printed, or graphic matter affixed to, applied to, attached to, blown into, formed, molded into, embossed on, or appearing upon any product or product package, for purposes of branding, identifying, or giving information with respect to the product or to the contents of the package.

<u>LACQUER</u> means a clear or opaque wood coating, including clear lacquer sanding sealers, formulated with cellulosic or synthetic resins to dry by evaporation without chemical reaction and to provide a solid, protective film.

<u>LOW-SOLIDS COATING</u> means a coating containing 0.12 kilogram or less of solids per liter (one pound or less of solids per gallon) of coating material.

<u>LUBRICANT</u> means a product designed to reduce friction, heat, noise, or wear between moving parts, or to loosen rusted or immovable parts or mechanisms. Lubricant does not include automotive power steering fluids; products for use inside power generating motors, engines, and turbines, and their associated power-transfer gearboxes; two-cycle oils or other products designed to be added to fuels; products for use on the human body or animals or products that are sold exclusively to establishments that manufacture or construct goods or commodities, and labeled not for retail sale.

<u>MAGNESITE CEMENT COATING</u> means a coating labeled and formulated for application to magnesite cement decking to protect the magnesite cement substrate from erosion by water.

<u>MANUFACTURER</u> means any person who manufactures, processes, imports, assembles, produces, packages, repackages, or re-labels a product.

<u>MANUFACTURERS MAXIMUM RECOMMENDATION</u> means the maximum recommendation for thinning that is indicated on the label or lid of the coating container.

<u>MASTIC TEXTURE COATING</u> means a coating labeled and formulated to cover holes and minor cracks and to conceal surface irregularities, and is applied in a single coat of at least ten mils (0.010 inch) dry film thickness.

<u>METALLIC PIGMENTED COATING</u> means a coating containing at least 48 grams of elemental metallic pigment per liter of coating as applied (0.4 pounds per gallon) when tested in accordance with SCAQMD Method 318-95.

<u>MULTI-COLOR COATING</u> means a coating that is packaged in a single container and that exhibits more than one color when applied in a single coat.

<u>NON-FLAT HIGH GLOSS COATING</u> means a non-flat coating that registers a gloss of 70 or above on a 60° meter according to ASTM Designation D 523-89 (1999).

<u>NON-FLAT COATING</u> means a coating that is not defined under any other definition in 310 CMR 7.25(11)(b) and that registers a gloss of 15 or greater on an 85° meter and five or greater on a 60° meter according to ASTM Designation D 523-89 (1999).

<u>NON-INDUSTRIAL USE</u> means any use of architectural coatings except in the construction or maintenance of any of the following: facilities used in the manufacturing of goods and commodities; transportation infrastructure, including highways, bridges, airports and railroads; facilities used in mining activities, including petroleum extraction; and utilities infrastructure, including power generation and distribution, and water treatment and distribution systems.

<u>NUCLEAR COATING</u> means a protective coating formulated and recommended to seal porous surfaces such as steel or concrete that otherwise would be subject to intrusion by radioactive materials. These coatings must be resistant to long-term, *e.g.*, service life, cumulative radiation exposure (tested according to ASTM Method D 4082-89, *Standard Test Method for Effects of Gamma Radiation on Coatings for Use in Light-Water Nuclear Power Plants*), relatively easy to decontaminate, and resistant to various chemicals to which the coatings are likely to be exposed (Tested according to ASTM Method D 3912-80, Reapproved 1989, *Standard Test Method for Chemical Resistance of Coatings Used in Light-Water Nuclear Power Plants*.

<u>PESTICIDE</u> means and includes any substance or mixture of substances labeled, designed, or intended for use in preventing, destroying, repelling or mitigating any pest, or any substance or mixture of substances labeled, designed, or intended for use as a defoliant, desiccant, or plant regulator, provided that the term "pesticide" does not include any substance, mixture of substances, or device that the U.S. EPA does not consider to be a pesticide.

<u>POST-CONSUMER COATING</u> means a finished coating that would have been disposed of as waste, having completed its usefulness to a consumer, and does not include manufacturing wastes.

<u>PRE-TREATMENT WASH PRIMER</u> means a primer that contains a minimum of 0.5% acid, by weight, when tested in accordance with ASTM Designation D 1613-96, and that is labeled and formulated for application directly to bare metal surfaces to provide corrosion resistance and to promote adhesion of subsequent topcoats.

<u>PRIMER</u> means a coating labeled and formulated for application to a substrate to provide a firm bond between the substrate and subsequent coats.

<u>QUICK-DRY ENAMEL</u> means non-flat coating that is labeled as specified in 310 CMR 7.25(11)(d)6. and that is formulated to have the following characteristics:

(a) Is capable of being applied directly from the container under normal conditions with ambient temperatures between 16° C and 27° C;

(b) When tested in accordance with ASTM Designation D 1640-95, sets to touch in two hours or less, is tack free in four hours or less, and dries hard in eight hours or less by the mechanical test method; and

(c) Has a dried film gloss of 70 or above on a 60° meter.

<u>QUICK-DRY PRIMER SEALER AND UNDERCOATER</u> mean a primer, sealer, or undercoater that is dry to the touch in 30 minutes and can be re-coated in two hours when tested in accordance with ASTM Designation D 1640-95.

<u>RECYCLED COATING</u> means an architectural coating formulated such that 50% or more of the total weight consists of secondary and post-consumer coating, with 10% or more of the total weight consisting of post-consumer coating.

<u>RESIDENCE</u> means areas where people reside or lodge, including, but not limited to, single and multiple family dwellings, condominiums, mobile homes, apartment complexes, motels, and hotels.

<u>ROOF COATING</u> means a non-bituminous coating labeled and formulated exclusively for application to roofs for the primary purpose of preventing penetration of the substrate by water or reflecting heat and ultraviolet radiation. Metallic pigmented roof coatings, which qualify as metallic pigmented coatings, shall not be considered in this category, but shall be considered to be in the Metallic Pigmented Coatings category.

<u>RUST PREVENTIVE COATING</u> means a coating formulated exclusively for non-industrial use to prevent the corrosion of metal surfaces and labeled as specified in 310 CMR 7.25(11)(d)4.

<u>SANDING SEALER</u> means a clear or semi-transparent wood coating labeled and formulated for application to bare wood to seal the wood and to provide a coat that can be abraded to create a smooth surface for subsequent applications of coatings. A Sanding Sealer that also meets the definition of a Lacquer is not included in this category, but it is included in the Lacquer category.

SCAQMD means South Coast Air Quality Management District of the State of California.

<u>SEALER</u> means a coating labeled and formulated for application to a substrate for one or more of the following purposes: to prevent subsequent coatings from being absorbed by the substrate, or to prevent harm to subsequent coatings by materials in the substrate.

<u>SECONDARY COATING (REWORK)</u> means a fragment of a finished coating or a finished coating from a manufacturing process that has converted resources into a commodity of real economic value, but does not include excess virgin resources of the manufacturing process.

<u>SHELLAC</u> means a clear or opaque coating formulated solely with the resinous secretions of the lac beetle (Laciffer lacca), thinned with alcohol, and formulated to dry by evaporation without a chemical reaction.

<u>SHOP APPLICATION</u> means application of a coating to a product or a component of a product in or on the premises of a factory or a shop as part of a manufacturing, production, or repairing process (*e.g.*, original equipment manufacturing coatings).

<u>SOLICIT</u> means to require for use or to specify, by written or oral contract.

<u>SPECIALTY PRIMER, SEALER, AND UNDERCOATER</u> means a coating that is formulated for application to a substrate to seal fire, smoke or water damage; to condition excessively chalky surfaces; or to block stains. An excessively chalky surface is one that is defined as having a chalk rating of four or less as determined by ASTM Designation D 4214-98.

<u>STAIN</u> means a clear, semi-transparent, or opaque coating labeled and formulated to change the color of a surface, but not conceal the grain pattern or texture.

<u>SWIMMING POOL COATING</u> means a coating labeled and formulated to coat the interior of swimming pools and to resist the adverse effects of chemicals in swimming pool water.

<u>SWIMMING POOL REPAIR AND MAINTENANCE COATING</u> means a rubber-based coating labeled and formulated to be used over existing rubber-based coatings for the repair and maintenance of swimming pools.

<u>TEMPERATURE-INDICATOR SAFETY COATING</u> means a coating labeled and formulated as a color-changing indicator coating for the purpose of monitoring the temperature and safety of the substrate, underlying piping, or underlying equipment, and for application to substrates exposed continuously or intermittently to temperatures above 204°C (400°F).

<u>THERMOPLASTIC RUBBER COATING AND MASTIC</u> means a coating or mastic formulated and recommended for application to roofing or other structural surfaces and that incorporates no less than 40% by weight of thermoplastic rubbers in the total resin solids and may also contain other ingredients including, but not limited to, fillers, pigments, and modifying resins.

<u>TINT BASE</u> means an architectural coating to which colorant is added after packaging in sale units to produce a desired color.

<u>TRAFFIC MARKING COATING</u> means a coating labeled and formulated for marking and striping streets, highways, or other traffic surfaces including, but not limited to, curbs, driveways, parking lots, sidewalks, and airport runways.

<u>UNDERCOATER</u> means a coating labeled and formulated to provide a smooth surface for subsequent coatings.

<u>VARNISH</u> means a clear or semi-transparent wood coating, excluding lacquers and shellacs, formulated to dry by chemical reaction on exposure to air. Varnishes may contain small amounts of pigment to color a surface, or to control the final sheen or gloss of the finish.

<u>VOC CONTENT</u> means the weight of VOC per volume of coating, calculated according to the procedures specified in 310 CMR 7.25(11)(f)1.

<u>WATERPROOFING CONCRETE/MASONRY SEALER</u> means a clear or pigmented filmforming coating that is labeled and formulated for sealing concrete and masonry to provide resistance against water, alkalis, acids, ultraviolet light, and staining.

<u>WATERPROOFING SEALER</u> means a coating labeled and formulated for application to a porous substrate for the primary purpose of preventing the penetration of water.

<u>WOOD PRESERVATIVE</u> means a coating labeled and formulated to protect exposed wood from decay or insect attack that is registered with both the U.S. EPA under the Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C. § 136, *et seq.*) and with the Massachusetts Pesticide Control Act.

(c) <u>Standards</u>.

1. <u>VOC Content Limits</u>. Except as provided in 310 CMR 7.25(11)(c)2. through 310 CMR 7.25(11)(c)4., 310 CMR 7.25(11)(c)6., and 310 CMR 7.25(11)(c)7., no person subject to 310 CMR 7.25 shall:

a. manufacture or blend for sale within Massachusetts;

b. supply, sell, or offer for sale within Massachusetts; or

c. solicit for application or apply within Massachusetts any architectural coating with a VOC content in excess of the corresponding limit specified in 310 CMR 7.25(11)(c)1.: *Table 1*.

Table 1. VOC Content Limits for Architectural And Industrial Maintenance CoatingsEffective January 1, 2009

Coating Category	VOC Content Limit
	(grams/liter)
Flat Coatings	100
Non-flat Coatings	150
Non-flat High Gloss Coatings	250
SPECIALTY COATINGS	
Antenna Coatings	530
Antifouling Coatings	400
Bituminous Roof Coatings	300
Bituminous Roof Primers	350
Bond Breakers	350
Calcimine Recoater	475
Clear Wood Coatings	
Clear Brushing Lacquers	680
Lacquers (including lacquer sanding sealers)	550
Sanding Sealers (other than lacquer sanding sealers)	350
Varnishes	350
Conversion Varnishes	725
Concrete Curing Compounds	350
Concrete Surface Retarders	780
Dry Fog Coatings	400
Faux Finishing Coatings	350
Fire Resistive Coatings	350
Fire Retardant Coatings	
Clear	650
Opaque	350
Floor Coatings	250
Flow Coatings	420
Form-release Compounds	250
Graphic Arts Coatings (Sign Paints)	500
High Temperature Coatings	420
Impacted Immersion Coatings	780
Industrial Maintenance Coatings	340
Low-solids Coatings	120
Magnesite Cement Coatings	450
Mastic Texture Coatings	300
Metallic Pigmented Coatings	500
Multi-color Coatings	250

7.25: continued

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

	VOC Content Limit
Coating Category	(grams/liter)
Nuclear Coatings	450
Pre Treatment Wash Primers	420
Primers, Sealers, and Undercoaters	200
Quick Dry Enamels	250
Quick Dry Primers, Sealers and Undercoaters	200
Recycled Coatings	250
Roof Coatings	250
Rust Preventative Coatings	400
Shellacs	
Clear	730
Opaque	550
Specialty Primers, Sealers, and Undercoaters	350
Stains	250
Swimming Pool Coatings	340
Swimming Pool Repair and Maintenance Coatings	340
Temperature-indicator Safety Coatings	550
Thermoplastic Rubber Coatings and Mastics	550
Traffic Marking Coatings	150
Waterproofing Sealers	250
Waterproofing Concrete/Masonry Sealers	400
Wood Preservatives	350

Limits are expressed in grams of VOC per liter of coating thinned to the manufacturer's maximum recommendation, excluding the volume of any water, exempt compounds, or colorant added to tint bases.

2. <u>Most Restrictive VOC Limit</u>. If anywhere on the container of any architectural coating, or any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on its behalf, any representation is made that indicates that the coating meets the definition of, or is recommended for use, for more than one of the coating categories specified in 310 CMR 7.25(11)(c)1., then the lowest VOC content limit shall apply. 310 CMR 7.25(11)(c)2. does not apply to the following coating categories:

- a. Lacquer coatings (including lacquer sanding sealers).
- b. Metallic pigmented coatings.
- c. Shellacs.
- d. Fire-retardant coatings.
- e. Pretreatment wash primers.
- f. Industrial maintenance coatings.
- g. Low-solids coatings.
- h. Wood preservatives.
- i. High-temperature coatings.
- j. Temperature-indicator safety coatings.
- k. Antenna coatings.
- l. Antifouling coatings.
- m. Flow coatings.
- n. Bituminous roof primers.
- o. Specialty primers, sealers, and undercoaters.
- p. Calcimine recoaters.
- q. Concrete surface retarders.
- r. Conversion varnishes.
- s. Impacted Immersion Coatings.
- t Nuclear coatings.
- u. Thermoplastic rubber coating and mastic.

3. <u>Sell-through of Coatings</u>. A coating manufactured prior to January 1, 2009, may be sold, supplied, offered for sale, or applied after January 1, 2009, until January 1, 2012, so long as the coating complied with the VOC content standards and other applicable requirements in effect at the time the coating was manufactured. 310 CMR 7.25(11)(c)3. shall not apply if:

a. A coating does not display the date on which the product was manufactured or a code indicating such date as required by 310 CMR 7.25(11)(d)1.a.i.; or

b. The manufacturer has not filed an explanation of the code with the Department by the deadlines specified in 310 CMR 7.25(11)(d)1.a.ii.(i) for a coating on which the manufacturer has used a code indicating the date of manufacture that is different than the code specified in 310 CMR 7.25(11)(d)1.a.ii.(ii).

4. <u>Exclusions</u>. The VOC content standards specified in 310 CMR 7.25(11)(c)1. shall not apply to:

a. Any aerosol coating product.

b. Any architectural coating that is sold in a container with a volume of one liter (1.057 quart) or less.

5. <u>Coatings Not Listed in 310 CMR 7.25(11)(c)1.</u>: *Table 1*. For any coating that does not meet any of the definitions for the specialty coatings categories listed in 310 CMR 7.25(11)(c)1.: *Table 1*, the VOC content limit shall be determined by classifying the coating as a flat coating, non-flat coating, or non-flat high gloss coating based on its gloss, as defined in 310 CMR 7.25(11)(b), and the corresponding flat, non-flat, or non-flat high gloss coating limit shall apply.

6. <u>Lacquers</u>. Notwithstanding the provisions of 7.25(11)(c)1., a person or facility may add up to 10% by volume of VOC to a lacquer to avoid blushing of the finish during days with relative humidity greater than 70% and temperature below 65°F, at the time of application, provided that the coating contains acetone and no more than 550 grams of VOC per liter of coating, less water and exempt compounds, prior to the addition of VOC.

7. <u>Products Registered Under FIFRA</u>.

a. AIM coatings registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA; 7 U.S.C. § 136-136y) must comply with the VOC standards specified in 310 CMR 7.25(11)(c)1.: *Table 1*, by 12 months after the VOC limit compliance date specified in 310 CMR 7.25(11)(c)1. Such products must also be registered under the Massachusetts Pesticide Control Act.

b. The labeling requirements of 310 CMR 7.25(11)(d) do not apply to products that are registered as pesticides under FIFRA and the Massachusetts Pesticide Control Act.

c. For coatings that are registered under FIFRA, the three-year sell-through period provided in 310 CMR 7.25(11)(c)3. shall begin one year after the date specified in 310 CMR 7.25(11)(c)1.

8. <u>Thinning</u>. No person who applies or solicits the application of any architectural coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in Table 1.

9. <u>Painting Practices</u>. All architectural coating containers used to apply the contents therein to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging, or other means, shall be closed when not in use. These architectural coatings containers include, but are not limited to, drums, buckets, cans, pails, trays, or other application containers. Containers of any VOC-containing materials used for thinning and cleanup shall also be closed when not in use.

(d) <u>Labeling Requirements</u>.

1. Each manufacturer of any architectural coating subject to this rule shall display the information required in 310 CMR 7.25(11)(d)1.a. through 7.25(11)(d)1.c. on the coating container (or label) in which the coating is sold or distributed.

a. <u>Product Dating</u>.

i. The date the coating was manufactured, or a code representing the date, shall be indicated on the label, lid, or bottom of the container.

ii. Explanation of the Code.

(i) If the manufacturer uses a code indicating the date of manufacture for any coating, an explanation of the code shall be filed with the Department no later than:

- the effective date of the applicable standard specified in 310 CMR 7.25(11)(c)1.; or, the date on which the product first becomes available for sale, distribution, or use within Massachusetts, whichever is later; and

- 12 months prior to any date on which the product first becomes available for sale, distribution, or use within Massachusetts after any modification to an existing product's date-code format.

(ii) A manufacturer who uses the following code to indicate the date of manufacture shall not be subject to the requirements of 310 CMR 7.25(11)(d)1.a.ii.(i), if the code is represented separately from other codes on the product container so that it is easily recognizable:

YY DDD

where:

YY = two digits representing the year in which the product was manufactured.

DDD = three digits representing the day of the year on which the product was manufactured, with "001" representing the first day of the year, "002" representing the second day of the year, and so forth (*i.e.*, the "Julian date").

iii. No person shall erase, alter, deface or otherwise remove or make illegible any date or code indicating the date of manufacture from any regulated product container without the express authorization of the manufacturer.

iv. Codes indicating the date of manufacture are public information and may not be claimed as confidential.

b. <u>Thinning Recommendations</u>. A statement of the manufacturer's recommendation regarding thinning of the coating shall be indicated on the label or lid of the container. 310 CMR 7.25(11)(d)1.b. does not apply to the thinning of architectural coatings with water. If thinning of the coating prior to use is not necessary, the recommendation must specify that the coating must be applied without thinning.

c. <u>VOC Content</u>. Each container of any coating subject to this rule shall display either the maximum or the actual VOC content of the coating, as supplied, including the maximum thinning as recommended by the manufacturer. VOC content shall be displayed in grams of VOC per liter of coating. VOC content displayed shall be calculated using product formulation data, or shall be determined using the test methods in 310 CMR 7.25(11)(f)2. The equations in 310 CMR 7.25(11)(f)1. shall be used to calculate VOC content.

2. <u>Industrial Maintenance Coatings</u>. In addition to the information specified in 310 CMR 7.25(11)(d)1.a. through 310 CMR 7.25(11)(d)1.c., each manufacturer of any industrial maintenance coating subject to this rule shall display on the label or the lid of the container in which the coating is sold or distributed one or more of the following descriptions:

a. "For industrial use only."

b. "For professional use only."

c. "Not for residential use." or "Not intended for residential use."

3. <u>Clear Brushing Lacquers</u>. The labels of all clear brushing lacquers shall prominently display the statements "For Brush Application Only" and "This product must not be thinned or sprayed."

4. <u>Rust Preventive Coatings</u>. The labels of all rust preventive coatings shall prominently display the statement "For Metal Substrates Only."

5. <u>Specialty Primers, Sealers, and Undercoaters</u>. The labels of all specialty primers, sealers, and undercoaters shall prominently display one or more of the following descriptions:

a. For blocking stains.

- b. For fire-damaged substrates.
- c. For smoke-damaged substrates.
- d. For water-damaged substrates.
- e. For excessively chalky substrates.

6. <u>Quick Dry Enamels</u>. The labels of all quick dry enamels shall prominently display the words "Quick Dry" and the dry hard time.

7. <u>Non-flat High Gloss Coatings</u>. The labels of all non-flat high gloss coatings shall prominently display the words "High Gloss."

(e) <u>Recordkeeping and Reporting Requirements</u>.

1. Each manufacturer of a product subject to a VOC content limit in 310 CMR 7.25(11)(c) of this regulation shall keep records demonstrating compliance with the VOC content limits in accordance with 310 CMR 7.25(11)(f). Such records shall clearly list each product by name (and identifying number, if applicable) as shown on the product label and in applicable sales and technical literature, the VOC content as determined in 310 CMR 7.25(11)(f), the names and chemical abstract service (CAS) numbers of the VOC constituents in the product, the dates of the VOC content determinations, the coating category and the applicable VOC content limit. These records shall be kept on site for a period not less than three years and shall be made available to the Department within 90 days of a written request.

2. A responsible official from each manufacturer shall, upon request of the Department, provide data concerning the distribution and sales of coatings subject to a VOC content limit in 310 CMR 7.25(11)(c). The responsible official shall within 90 days provide information including, but not limited to:

- a. the name and mailing address of the manufacturer;
- b. the name, address and telephone number of a contact person;

c. the name of the product as it appears on the label and the coating category in 310 CMR 7.25(11)(c) under which it is regulated;

d. whether it is marketed for interior or exterior use or both;

e. the number of gallons sold in Massachusetts in containers greater than one liter and less than one liter;

f. the actual VOC content and VOC content limit in grams per liter. If thinning is recommended, list the actual VOC content and VOC content after recommended thinning. If containers less than one liter have a different VOC content than containers greater than one liter, list separately;

- g. the names and CAS numbers of the VOC constituents in the product; and
- h. the names and CAS numbers of any compounds in the products specifically exempted under 310 CMR 7.25(11)(c).
- (f) Compliance Provisions and Test Methods.

1. <u>Calculation of VOC Content</u>. For the purpose of determining compliance with the VOC content limits in 310 CMR 7.25(11)(c)1.: *Table 1*, the VOC content of a coating shall be determined according to 310 CMR 7.25(11)(f)1.a. or 310 CMR 7.25(11)(f)1.b., as appropriate. The VOC content of a tint base shall be determined without colorant that is added after the tint base is manufactured.

a. For all coatings other than low-solids coatings, the VOC content of the coating in units of grams of VOC per liter of coating thinned to the manufacturer's maximum recommendation, excluding the volume of any water and exempt compounds, shall be determined using Equation (1) as follows:

VOC Content =
$$(W_v - W_w - W_{ec}) / (V_c - V_w - V_{ec})$$
 Equation (1)

Where,

VOC Content = grams of VOC per liter of coating

 $W_v =$ weight of volatiles, in grams

 W_w = weight of water, in grams

 W_{ec} = weight of exempt compounds, in grams

 V_c = volume of coating, in liters

 V_w = volume of water, in liters

 V_{ec} = volume of exempt compounds, in liters

b. For low-solids coatings, the VOC content in units of grams of VOC per liter of coating thinned to the manufacturer's maximum recommendation, including the volume of any water and exempt compounds, shall be determined using Equation (2) as follows:

VOC Content (ls) = $(W_v - W_w - W_{ec}) / (V_c)$ Equation (2)

where,

VOC Content (ls) = the VOC content of a low solids coating in grams per liter of coating

W = weight of volatile, in grams

 W_w = weight of water, in grams

 W_{ec} = weight of exempt compounds, in grams

 V_c = volume of coating, in liters

2. <u>VOC Content of Coatings</u>. Except as provided in 310 CMR 7.25(11)(f)3. and (f)4., U.S. EPA Method 24 shall be used to determine the physical properties of a coating in order to perform the calculations in 310 CMR 7.25(11)(f)1. An alternative method to determine the VOC content of coatings is SCAQMD Method 304-91 (Revised February 1996). The exempt compounds content shall be determined by SCAQMD Method 303-91 (Revised August 1996). The manufacturer may use U.S. EPA Method 24, an alternative test method as provided in 310 CMR 7.25(11)(f)3., formulation data, or any other reasonable means (*e.g.*, quality assurance records, recordkeeping) to determine the VOC content of the coating. However, if there are any inconsistencies between the results of a Method 24 test and any other means for determining VOC content, the Method 24 results shall govern, except when an alternative method is approved by EPA. The Department may require the manufacturer to conduct a Method 24 analysis.

3. <u>Alternative Test Methods</u>. Other test methods demonstrated to provide results that are acceptable for purposes of determining compliance with 310 CMR 7.25(11)(c)1. may be used provided that the manufacturer has received an approval from CARB for the alternative testing method to be used in architectural and maintenance coatings VOC content determination. A copy of CARB's approval, including all conditions established by CARB applicable to the testing procedure, shall be submitted to the Department within 30 days upon the Department's written request.

4. <u>Methacrylate Traffic Coating Markings</u>. Analysis of methacrylate multi-component coatings used as traffic marking coatings shall be conducted according to a modification of U.S. EPA Method 24 (40 CFR 59, subpart D, Appendix A). This method has not been approved for methacrylate multicomponent coatings used for purposes other than traffic marking coatings or for other classes of multicomponent coatings.

5. <u>Test Methods</u>. The following test methods are incorporated by reference herein, and shall be used to test coatings subject to the provisions of this rule:

a. <u>Flame Spread Index</u>. The flame-spread index of a fire-retardant coating shall be determined by the ASTM Designation E 84-99, *Standard Test Method for Surface Burning Characteristics of Building Materials*.

b. <u>Fire-resistance Rating</u>. The fire-resistance rating of a fire-resistive coating shall be determined by ASTM designation E 119-98, *Standard Test Methods for Fire Tests of Building Construction Materials*

c. <u>Gloss Determination</u>. The gloss of a coating shall be determined by ASTM Designation D 523-89 (1999), *Standard Test Method for Specular Gloss*.

d. <u>Metal Content of Coatings</u>. The metallic content of a coating shall be determined by SCAQMD Method 318-95, *Determination of Weight Percent Elemental Metal in Coatings by X-Ray Diffraction*, SCAQMD Laboratory Methods of Analysis for Enforcement Samples.

e. <u>Acid Content of Coatings</u>. The acid content of a coating shall be determined by ASTM Designation D 1613-96, *Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and Related Products.*

f. <u>Drying Times</u>. The set-to-touch, dry-hard, dry-to-touch and dry-to-recoat times of a coating shall be determined by ASTM Designation D 1640-95, *Standard Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature*. The tack free time of a quick-dry enamel coating shall be determined by the Mechanical Test Method of ASTM Designation D 1640-95.

g. <u>Surface Chalkiness</u>. The chalkiness of a surface shall be determined using ASTM Designation D 4214-98, *Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films*.

h. <u>Exempt Compounds – Siloxanes</u>. To determine the cyclic, branched, or linear completely methylated siloxanes content of a coating, the coating shall be analyzed according to BAAQMD Method 43, *Determination of Volatile Methylsiloxanes in Solvent-Based Coatings, Inks, and Related Materials*, BAAQMD Manual of Procedures, Volume III, adopted November 6, 1996.

i. <u>Exempt Compounds - Parachlorobenzotrifluoride (PCBTF)</u>. To determine parachlorobenzotrifluoride content of a coating, the coating shall be analyzed according to BAAQMD Method 41, *Determination of Volatile Organic Compounds in Solvent-Based Coatings and Related Materials Containing Parachlorobenzotrifluoride*, BAAQMD Manual of Procedures, Volume III, adopted December 20, 1995.

j. Exempt Compounds – Volatile Organic Compounds Exempted Under U.S. EPA <u>Method 24</u>. To determine the composition of a coating with respect to volatile organic compounds that are exempt under U.S. EPA Method 24, the coating shall be analyzed according to SCAQMD Method 303-91 (Revised August 1996), *Determination of Exempt Compounds*, SCAQMD "Laboratory Methods of Analysis for Enforcement Samples."

k. <u>VOC Content of Coatings</u>. The VOC content of a coating shall be determined by U.S. EPA Method 24 as it exists in appendix A of 40 Code of Federal Regulations (CFR) Part 60, *Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings*.

1. <u>Alternative Methods for Determining VOC Content of Coatings</u>. The VOC content of coatings may be determined by either U.S. EPA Method 24 or by SCAQMD Method 304-91 (Revised 1996), *Determination of Volatile Organic Compounds (VOC) in Various Materials*, SCAQMD Laboratory Methods of Analysis for Enforcement Samples.

m. <u>Methacrylate Traffic Marking Coatings</u>. The VOC content of methacrylate multi-component coatings used as traffic marking coatings shall be determined by the procedures in 40 CFR part 59, subpart D, appendix A, *Determination of Volatile Matter Content of Methacrylate Multi-component Coatings Used as Traffic Marking Coatings*, (September 11, 1998).

(12) <u>Consumer Products</u>.

(a) <u>Applicability</u>.

1. Except as provided in 310 CMR 7.25(12)(a)2., the requirements of 310 CMR 7.25(12) apply to any person who, on or after January 1, 2009, sells, supplies, offers for sale, or manufactures any consumer product listed in 310 CMR 7.25(12)(c)1. for use in Massachusetts.

2. a. The provisions of 310 CMR 7.25(12) do not apply to any person who, sells, supplies, offers for sale, or manufactures in Massachusetts any consumer product specified in 310 CMR 7.25(12)(b) that is for exclusive use outside of Massachusetts as long as the manufacturer or distributor can demonstrate both that the consumer product is intended for shipment and use outside of Massachusetts and that the manufacturer or distributor has taken reasonable prudent precautions to assure that the consumer product is not distributed to Massachusetts.

b. The provision in 310 CMR 7.25(12)(a)2.a. does not apply to consumer products that are sold, supplied, or offered for sale by any person to retail outlets in Massachusetts.

(b) <u>Definitions</u>. Terms used in 310 CMR 7.25 are defined at 310 CMR 7.00: *Definitions* or in 310 CMR 7.25. Where a term is defined in both 310 CMR 7.00: *Definitions* and in 310 CMR 7.25, the definition in 310 CMR 7.25 shall apply.

<u>ACP EXECUTIVE ORDER</u> means the document approved and signed by CARB that includes the conditions and requirements of the ACP, and which allows a manufacturer to sell products in the state of California under the ACP.

<u>ADHESIVE</u> means any product that is used to bond one surface to another by attachment. Adhesive does not include products used on humans and animals, adhesive tape, contact paper, wallpaper, shelf liners, or any other product with an adhesive incorporated onto or in an inert substrate. For Contact Adhesive, "adhesive" does not include units of product, less packaging, which consist of more than one gallon. For Construction, Panel, and Floor Covering Adhesive, and General Purpose Adhesive, "adhesive" does not include units of product, less packaging, which weigh more than one pound and consist of more than 16 fluid ounces. This limitation does not apply to aerosol adhesives.

<u>ADHESIVE REMOVER</u> means a product designed to remove adhesive from either a specific type of substrate or a variety of types of substrates. Adhesive removers do not include products that remove adhesives intended for use on humans or animals. For the purpose of 310 CMR 7.25(11)(b): <u>ADHESIVE REMOVER</u> and 310 CMR 7.25(11)(b): <u>ADHESIVE REMOVER</u> and 310 CMR 7.25(11)(b): <u>ADHESIVE REMOVER</u> and substance used to bind one or more materials. Adhesive includes, but is not limited to: caulks; sealants; glues; or similar substances used for the purpose of forming a bond.

1. <u>FLOOR AND WALL COVERING ADHESIVE REMOVER</u> means a product designed or labeled to remove floor or wall coverings and associated adhesive from the underlying substrate;

2. <u>GASKET OR THREAD LOCKING ADHESIVE REMOVER</u> means a product designed or labeled to remove gaskets or thread locking adhesives. Products labeled for dual use as a paint stripper and gasket remover and/or thread locking adhesive remover are considered Gasket or Thread Locking Adhesive Remover.

3. <u>GENERAL PURPOSE ADHESIVE REMOVER</u> means a product designed or labeled to remove cyanoacrylate adhesives as well as non-reactive adhesives or residue from a variety of types of substrates. General Purpose Adhesive Remover includes, but is not limited to, products that remove thermoplastic adhesives; pressure sensitive adhesives; dextrin or starch-based adhesives; casein glues; rubber or latex-based adhesives; as well as products that remove stickers; decals; stencils; or similar materials. General Purpose Adhesive Remover does not include Floor or Wall Covering Adhesive Remover.

4. <u>SPECIALTY ADHESIVE REMOVER</u> means a product designed to remove reactive adhesives from a variety of substrates. Reactive adhesives include adhesives that require a hardener or catalyst in order for the bond to occur. Examples of reactive adhesives include, but are not limited to: epoxies, urethanes, and silicones. Specialty Adhesive Remover does not include Gasket or Thread Locking Adhesive Remover.

<u>AEROSOL ADHESIVE</u> means an aerosol adhesive product in which the spray mechanism is permanently housed in a non-refillable can designed for hand-held application without the need for ancillary hoses or spray equipment. Aerosol Adhesives include Special Purpose Spray Adhesives, Mist Spray Adhesives, and Web Spray Adhesives.

<u>AEROSOL COOKING SPRAY</u> means any aerosol product designed either to reduce sticking on cooking and baking surfaces or to be applied on food, or both.

<u>AEROSOL PRODUCT</u> means a pressurized spray system that dispenses product ingredients by means of a propellant contained in a product's container or a mechanically induced force. Aerosol Product does not include Pump Spray.

<u>AGRICULTURAL USE</u> means the use of any pesticide or method or device for the control of pests in connection with the commercial production, storage or processing of any animal or plant crop. Agricultural Use does not include the sale or use of pesticides in properly labeled packages or containers that are intended for home use; use in structural pest control; industrial use; or institutional use. For the purposes of this definition only:

1. <u>HOME USE</u> means use in a household or its immediate environment.

2. <u>STRUCTURAL PEST CONTROL USE</u> means a use requiring a license under the Massachusetts Pesticide Control Act.

3. <u>INDUSTRIAL USE</u> means use for or in a manufacturing, mining, or chemical process or use in the operation of factories, processing plants, and similar sites.

4. <u>INSTITUTIONAL USE</u> means use within the lines of or on property necessary for the operation of buildings such as hospitals, schools, libraries, and auditoriums.

AIR FRESHENER means any consumer product including, but not limited to, sprays, wicks, powders, and crystals, designed for the purpose of masking odors, or freshening, cleaning, scenting, or deodorizing the air. Air Freshener includes dual-purpose air freshener/ disinfectant products. Air Freshener does not include products that are used on the human body, products that function primarily as cleaning products as indicated on a product label, or Toilet/Urinary Care Products, disinfectant products claiming to deodorize by killing germs on surfaces, or institutional/industrial disinfectants when offered for sale solely through institutional and industrial channels of distribution. Air Freshener does include spray disinfectants and other products that are expressly represented for use as air fresheners, except institutional and industrial disinfectants when offered for sale through institutional and industrial channels of distribution. To determine whether a product is an air freshener, all verbal and visual representations regarding product use on the label or packaging and in the product's literature and advertising may be considered. The presence of, and representations about, a product's fragrance and ability to deodorize (resulting from surface application) shall not constitute a claim of air freshening.

<u>ALL OTHER CARBON CONTAINING COMPOUNDS</u> means any other compound that contains at least one carbon atom and is not an Exempt Compound or an LVP-VOC.

<u>ALL OTHER FORMS</u> means all consumer product forms for which no form-specific VOC standard is specified. Unless specified otherwise by the applicable VOC standard, All Other Forms include, but are not limited to, solids, liquids, wicks, powders, crystals, and cloth or paper wipes (towelettes).

<u>ALTERNATIVE CONTROL PLAN or ACP</u> means an emissions-averaging program approved by CARB pursuant to California Code of Regulations, Title 17, Subchapter 8.5, Article 4, Sections 94540-94555.

<u>ANTIMICROBIAL HAND OR BODY CLEANER OR SOAP</u> means a cleaner, or soap, that is designed to reduce the level of microorganisms on the skin through germicidal activity. Antimicrobial Hand or Body Cleaner or Soap includes, but is not limited to antimicrobial hand or body washes/cleaners, food-handler hand washes, healthcare personnel hand washes, pre-operative skin preparations and surgical scrubs. Antimicrobial Hand or Body Cleaner or Soap does not include prescription drug products, Antiperspirants, Astringent/Toner, Deodorant, Facial Cleaner or Soap, General-use Hand or Body Cleaner or Soap, Hand Dishwashing Detergent (including antimicrobial), Heavy-duty Hand Cleaner or Soap, Medicated Astringent/Medicated Toner, and Rubbing Alcohol.

<u>ANTIPERSPIRANT</u> means any product including, but not limited to, aerosols, roll-ons, sticks, pumps, pads, creams, and squeeze bottles, that is intended by the manufacturer to be used to reduce perspiration in the human axilla by at least 20% in at least 50% of a target population.

<u>ANTI-STATIC PRODUCT</u> means a product that is labeled to eliminate, prevent, or inhibit the accumulation of static electricity. Anti-Static Product does not include Electronic Cleaner, Floor Polish or Wax, Floor Coating, and products that meet the definition of Aerosol Coating Product or Architectural Coating.

<u>ARCHITECTURAL COATING</u> means a coating to be applied to stationary structures or the appurtenances at the site of installation, to portable buildings at the site of installation, to pavements, or to curbs.

<u>ASTM</u> means the American Society for Testing and Materials.

<u>ASTRINGENT/TONER</u> means any product not regulated as a drug by the United States Food and Drug Administration (FDA) that is applied to the skin for the purpose of cleaning or tightening pores. This category also includes clarifiers and substrate-impregnated products. This category does not include any hand, face, or body cleaner or soap product, Medicated Astringent/Medicated Toner, cold cream, lotion, or antiperspirant.

<u>AUTOMOTIVE BRAKE CLEANER</u> means a cleaning product designed to remove oil, grease, brake fluid, brake pad material or dirt from motor vehicle brake mechanisms.

<u>AUTOMOTIVE HARD PASTE WAX</u> means an automotive wax or polish that is:

- 1. designed to protect and improve the appearance of automotive paint surfaces; and
- 2. a solid at room temperature; and
- 3. contains 0% water by formulation.

<u>AUTOMOTIVE INSTANT DETAILER</u> means a product designed for use in a pump spray that is applied to the painted surface of automobiles and wiped off prior to the product being allowed to dry.

<u>AUTOMOTIVE RUBBING OR POLISHING COMPOUND</u> means a product designed primarily to remove oxidation, old paint, scratches or swirl marks, and other defects from the painted surfaces of motor vehicles without leaving a protective barrier.

<u>AUTOMOTIVE WAX, POLISH, SEALANT OR GLAZE</u> means a product designed to seal out moisture, increase gloss, or otherwise enhance a motor vehicle's painted surfaces. Automotive Wax, Polish, Sealant or Glaze includes, but is not limited to, products designed for use in autobody repair shops and drive-through car washes, as well as products designed for the general public. Automotive Wax, Polish, Sealant or Glaze does not include Automotive Rubbing or Polishing Compounds, automotive wash and wax products, surfactant-containing car wash products, and products designed for use on unpainted surfaces such as bare metal, chrome, glass, or plastic.

<u>AUTOMOTIVE WINDSHIELD WASHER FLUID</u> means any liquid designed for use in a motor vehicle windshield washer system either as antifreeze or for the purpose of cleaning, washing, or wetting the windshield. Automotive windshield washer fluid does not include fluids placed by the manufacturer in a new vehicle.

<u>BATHROOM AND TILE CLEANER</u> means a product designed to clean tile or surfaces in bathrooms. Bathroom and Tile Cleaner does not include products designed primarily to clean toilet bowls, toilet tanks, or urinals.

<u>BUG AND TAR REMOVER</u> means a product labeled to remove either or both of the following from painted motor vehicle surfaces without causing damage to the finish:

- 1. biological-type residues such as insect carcasses and tree sap; and
- 2. road grime, such as road tar, roadway paint markings, and asphalt.

CARB means the California Air Resources Board.

<u>CARBURETOR OR FUEL-INJECTION AIR INTAKE CLEANERS</u> means a product designed to remove fuel deposits, dirt, or other contaminants from a carburetor, choke, throttle body of a fuel-injection system, or associated linkages. Carburetor or fuel-injection air intake cleaners does not include products designed exclusively for direct introduction into the fuel lines or fuel storage tank prior to introduction into the carburetor or fuel injectors.

<u>CARPET AND UPHOLSTERY CLEANER</u> means a cleaning product designed for the purpose of eliminating dirt and stains on rugs, carpeting, and the interior of motor vehicles and/or on household furniture or objects upholstered or covered with fabrics such as wool, cotton, nylon or other synthetic fabrics. Carpet and Upholstery Cleaner includes, but is not limited to, products that make fabric protectant claims. Carpet and Upholstery Cleaner does not include General Purpose Cleaners, Spot Removers, vinyl or leather cleaners, dry cleaning fluids, or products designed exclusively for use at industrial facilities engaged in furniture or carpet manufacturing.

<u>CHARCOAL LIGHTER MATERIAL</u> means any combustible material designed to be applied on, incorporated in, added to, or used with charcoal to enhance ignition. Charcoal Lighter Material does not include any of the following:

- 1. electrical starters and probes;
- 2. metallic cylinders using paper tinder;
- 3. natural gas;
- 4. propane; and
- 5. fat wood.

<u>COLORANT</u> means any pigment or coloring material used in a consumer product for an aesthetic effect, or to dramatize an ingredient.

<u>CONSTRUCTION, PANEL, AND FLOOR COVERING ADHESIVE</u> means any one component adhesive that is designed exclusively for the installation, remodeling, maintenance, or repair of:

1. structural and building components that include, but are not limited to, beams, trusses, studs, paneling (such as drywall or drywall laminates, fiberglass reinforced plastic (FRP), plywood, particle board, insulation board, pre-decorated hardboard or tileboard, *etc.*), ceiling and acoustical tile, molding, fixtures, countertops or countertop laminates, cover or wall bases, and flooring or subflooring; or

2. floor or wall coverings that include, but are not limited to, wood or simulated wood covering, carpet, carpet pad or cushion, vinyl backed carpet, flexible flooring material, non-resilient flooring material, mirror tiles and other types of tiles, and artificial grass. Construction, Panel, and Floor Covering Adhesive does not include Floor Seam Sealer.

<u>CONSUMER</u> means any person who purchases or acquires any product for personal, family, household, or institutional use. Persons acquiring a product for resale are not Consumers for that product.

<u>CONSUMER PRODUCT</u> means a chemically formulated product used by household and institutional consumers including, but not limited to, detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products; but does not include other paint products, furniture coatings, or architectural coatings. Consumer Product, as defined in 310 CMR 7.25, includes Aerosol Adhesives used for consumer, industrial, or commercial uses.

<u>CONTACT ADHESIVE</u> means an adhesive that:

1. is designed for application to both surfaces to be bonded together; and

is allowed to dry before the two surfaces are placed in contact with each other; and
 forms an immediate bond that is impossible, or difficult, to reposition after both adhesive-coated surfaces are placed in contact with each other; and

4. does not need sustained pressure or clamping of surfaces after the adhesive-coated surfaces have been brought together using sufficient momentary pressure to establish full contact between both surfaces. Contact Adhesive does not include rubber cements that are primarily intended for use on paper substrates. Contact Adhesive also does not include vulcanizing fluids that are designed and labeled for tire repair only.

<u>CONTACT ADHESIVE - GENERAL PURPOSE</u> means any contact adhesive that is not a Contact Adhesive - Special Purpose.

<u>CONTACT ADHESIVE - SPECIAL PURPOSE</u> means a contact adhesive that:

1. is used to bond melamine-covered board, unprimed metal, unsupported vinyl, Teflon, ultra-high molecular weight polyethylene, rubber, high pressure laminate or wood veneer 1/16 inch or less in thickness to any porous or nonporous surface, and is sold in units of product, less packaging, that contain more than eight fluid ounces; or

- 2. is used in automotive applications that are:
 - a. automotive under-the-hood applications requiring heat, oil or gasoline resistance; or
 - b. body-side molding, automotive weather-strip or decorative trim.

<u>CONTAINER/PACKAGING</u> means the part or parts of the consumer or institutional product that serve only to contain, enclose, incorporate, deliver, dispense, wrap or store the chemically formulated substance or mixture of substances which is solely responsible for accomplishing the purposes for which the product was designed or intended. Container/ Packaging includes any article onto or into which the principal display panel and other accompanying literature or graphics are incorporated, etched, printed or attached.

<u>CRAWLING BUG INSECTICIDE</u> means any insecticide product that is designed for use against ants, cockroaches, or other household crawling arthropods, including, but not limited to, mites, silverfish or spiders. Crawling Bug Insecticide does not include products designed to be used exclusively on humans or animals, or any house dust mite product. For the purposes of 310 CMR 7.25(11)(b): <u>CRAWLING BUG INSECTICIDE</u> only:

1. <u>HOUSE DUST MITE PRODUCT</u> means a product whose label, packaging, or accompanying literature states that the product is suitable for use against house dust mites, but does not indicate that the product is suitable for use against ants, cockroaches, or other household crawling arthropods.

2. <u>HOUSE DUST MITE</u> means mites that feed primarily on skin cells shed in the home by humans and pets and which belong to the phylum Arthropoda, the subphylum Chelicerata, the class Arachnida, the subclass Acari, the order Astigmata, and the family Pyroglyphidae.

<u>DATE-CODE</u> means the day, month and year on which the product was manufactured, filled, or packaged, or a code indicating such a date.

<u>DEODORANT</u> means any product including, but not limited to, aerosols, roll-ons, sticks, pumps, pads, creams, and squeeze bottles, that indicates or depicts on the container or packaging, or any sticker or label affixed thereto, that the product can be used on or applied to the human axilla to provide a scent and or minimize odor. A Deodorant Body Spray product that indicates or depicts on the container or packaging, or any sticker or label affixed thereto, that it can be used on or applied to the human axilla is a Deodorant as defined in 310 CMR 7.25(12)(b).

<u>DEODORANT BODY SPRAY</u> is a Personal Fragrance Product, as defined in 310 CMR 7.25(12)(b), with 20% or less fragrance that is designed for application all over the human body to provide a scent. A Deodorant Body Spray product that indicates or depicts on the container or packaging, or any sticker or label affixed thereto, that it can be used on or applied to the human axilla is a Deodorant as defined in 310 CMR 7.25(12)(b).

<u>DEVICE</u> means any instrument or contrivance other than a firearm that is designed for trapping, destroying, repelling, or mitigating any pest or any other form of plant or animal life (other than human and other than bacterium, virus, or another microorganism on or in living human or other living animals); but not including equipment used for the application of pesticides when sold separately therefrom.

<u>DISINFECTANT</u> means any product intended to destroy or irreversibly inactivate infectious or other undesirable bacteria, pathogenic fungi, or viruses on surfaces or inanimate objects and whose label is registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA, 7 U.S.C. 136, *et seq.*). Disinfectant does not include any of the following:

- 1. products designed solely for use on humans or animals;
- 2. products designed for agricultural use;
- 3. products designed solely for use in swimming pools, therapeutic tubs, or hot tubs;

4. products which, as indicated on the principal display panel or label, are designed primarily for use as bathroom and tile cleaners, glass cleaners, general purpose cleaners, toilet bowl cleaners, or metal polishes.

<u>DISTRIBUTOR</u> means any person to whom a consumer product is sold or supplied for the purposes of resale or distribution in commerce, except that manufacturers, retailers, and consumers are not distributors.

<u>DOUBLE PHASE AEROSOL AIR FRESHENER</u> means an aerosol air freshener with the liquid contents in two or more distinct phases that requires the product container be shaken before use to mix the phases, producing an emulsion.

<u>DRY CLEANING FLUID</u> means any non-aqueous liquid product designed and labeled exclusively for use on:

1. fabrics that are labeled "for dry clean only," such as clothing or drapery; or

2. S-coded fabrics. Dry Cleaning Fluid includes, but is not limited to, those products used by commercial dry cleaners and commercial businesses that clean fabrics such as draperies at the customer's residence or work place. Dry Cleaning Fluid does not include Spot Remover or Carpet and Upholstery Cleaner. For the purposes of 310 CMR 7.25(11)(b): <u>DRY CLEANING FLUID</u>, S-coded fabric means an upholstery fabric that is designed to be cleaned only with water-free spot cleaning products as specified by the Joint Industry Fabric Standards Committee.

<u>DUSTING AID</u> means a product designed to assist in removing dust and other soils from floors and other surfaces without leaving a wax or silicone based coating. Dusting Aid does not include Pressurized Gas Duster.

<u>ELECTRICAL CLEANER</u> means a product labeled to remove heavy soils such as grease, grime, or oil from electrical equipment, including, but not limited to, electric motors, armatures, relays, electric panels, or generators. Electrical Cleaner does not include General Purpose Cleaner, General Purpose Degreaser, Dusting Aid, Electronic Cleaner, Energized Electrical Cleaner, Pressurized Gas Duster, Engine Degreaser, Anti-static Product, or products designed to clean the casings or housings of electrical equipment.

<u>ELECTRONIC CLEANER</u> means a product labeled for the removal of dirt, moisture, dust, flux, or oxides from the internal components of electronic or precision equipment such as circuit boards, and the internal components of electronic devices, including but not limited to, radios, compact disc (CD) players, digital video disc (DVD) players, and computers. Electronic Cleaner does not include General Purpose Cleaner, General Purpose Degreaser, Dusting Aid, Pressurized Gas Duster, Engine Degreaser, Electrical Cleaner, Energized Electrical Cleaner, Anti-static Product, or products designed to clean the casings or housings of electronic equipment.

<u>ENERGIZED ELECTRICAL CLEANER</u> means a product that meets both of the following criteria:

1. the product is labeled to clean and/or degrease electrical equipment, where cleaning and/or degreasing is accomplished when electrical current exists, or when there is a residual electrical potential from a component such as a capacitor; and

2. the product label clearly displays the statements: "For Energized Equipment use only. Not to be used for motorized vehicle maintenance, or their parts." Energized Electrical Cleaner does not include Electronic Cleaner.

<u>ENGINE DEGREASER</u> means a cleaning product designed to remove grease, grime, oil and other contaminants from the external surfaces of engines and other mechanical parts.

<u>EXISTING PRODUCT</u> means any formulation of the same product category and form sold, supplied, manufactured, or offered for sale in Massachusetts prior to January 1, 2009, or any subsequently introduced identical formulation.

<u>FABRIC PROTECTANT</u> means a product designed to be applied to fabric substrates to protect the surface from soiling from dirt and other impurities or to reduce absorption of liquid into the fabric's fibers. Fabric Protectant does not include waterproofers, products designed for use solely on leather, or products designed for use solely on fabrics that are labeled for dry clean only and sold in containers of ten fluid ounces or less.

<u>FABRIC REFRESHER</u> means a product labeled to neutralize or eliminate odors on nonlaundered fabric including, but not limited to, soft household surfaces, rugs, carpeting, draperies, bedding, automotive interiors, footwear, athletic equipment, clothing and/or on household furniture or objects upholstered or covered with fabrics such as, but not limited to, wool, cotton, or nylon. Fabric Refresher does not include Anti-static Product, Carpet and Upholstery Cleaner, soft household surface sanitizers, Footwear or Leather Care Product, Spot Remover, or Disinfectant, or products labeled for application to both fabric and human skin. For the purposes of 310 CMR 7.25(11)(b): <u>FABRIC REFRESHER</u> only, soft household surface sanitizer means a product labeled to neutralize or eliminate odors on surfaces whose label is registered as a sanitizer under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA, 7 U.S.C. 136 *et seq.*).

<u>FACIAL CLEANER OR SOAP</u> means a cleaner or soap designed primarily to clean the face. Facial Cleaner or Soap includes, but is not limited to, facial cleansing creams, semisolids, liquids, lotions, and substrate-impregnated forms. Facial Cleaner or Soap does not include prescription drug products, Antimicrobial Hand or Body Cleaner or Soap, Astringent/Toner, General-use Hand or Body Cleaner or Soap, Medicated Astringent/Medicated Toner, or Rubbing Alcohol.

<u>FAT WOOD</u> means pieces of wood kindling with high naturally occurring levels of sap or resin that enhance ignition of the kindling. Fat wood does not include any kindling with substances added to enhance flammability, such as wax-covered or wax-impregnated wood-based products.

<u>FLEA AND TICK INSECTICIDE</u> means any insecticide product that is designed for use against fleas, ticks, their larvae, or their eggs. Flea and Tick Insecticide does not include products that are designed to be used exclusively on humans or animals and their bedding.

<u>FLEXIBLE FLOORING MATERIAL</u> means asphalt, cork, linoleum, no-wax, rubber, seamless vinyl, and vinyl composite flooring.

<u>FLOOR COATING</u> means an opaque coating that is labeled and formulated for application to flooring, including, but not limited to, decks, porches, steps, and other horizontal surfaces that may be subjected to foot traffic.

<u>FLOOR POLISH OR WAX</u> means a wax, polish, or any other product designed to polish, protect, or enhance floor surfaces by leaving a protective coating that is designed to be periodically replenished. Floor Polish or Wax does not include spray buff products, products designed solely for the purpose of cleaning floors, floor finish strippers, products designed for unfinished wood floors, and coatings subject to architectural coatings regulations.

<u>FLOOR SEAM SEALER</u> means any product designed and labeled exclusively for bonding, fusing, or sealing (coating) seams between adjoining rolls of installed flexible sheet flooring.

<u>FLOOR WAX STRIPPER</u> means a product designed to remove natural or synthetic floor polishes or waxes through breakdown of the polish or wax polymers, or by dissolving or emulsifying the polish or wax. Floor Wax Stripper does not include aerosol floor wax strippers or products designed to remove floor wax solely through abrasion.

<u>FLYING BUG INSECTICIDE</u> means any insecticide product that is designed for use against flying insects or other flying arthropods, including but not limited to flies, mosquitoes, moths, or gnats. Flying Bug Insecticide does not include wasp and hornet insecticide, products that are designed to be used exclusively on humans or animals, or any mothproofing product. For the purposes of 310 CMR 7.25(11)(b): <u>FLYING BUG INSECTICIDE</u> only, moth-proofing product means a product whose label, packaging, or accompanying literature indicates that the product is designed to protect fabrics from damage by moths, but does not indicate that the product is suitable for use against flying insects or other flying arthropods.

<u>FOOTWEAR OR LEATHER CARE PRODUCT</u> means any product designed or labeled to be applied to footwear or to other leather articles/components, to maintain, enhance, clean, protect, or modify the appearance, durability, fit, or flexibility of the footwear or leather article/component. Footwear includes both leather and non-leather foot apparel. Footwear or Leather Care Product does not include Fabric Protectant, General Purpose Adhesive, Contact Adhesive, Vinyl/Fabric/Leather/Polycarbonate Coating, Rubber and Vinyl Protectant, Fabric Refresher, products solely for deodorizing, or sealant products with adhesive properties used to create external protective layers greater than two millimeters thick.

<u>FORM-RELEASE COMPOUND</u> means a coating labeled and formulated for application to a concrete form to prevent the freshly poured concrete from bonding to the form. The form may consist of wood, metal, or some material other than concrete.

<u>FRAGRANCE</u> means a substance or complex mixture of aroma chemicals, natural essential oils, and other functional components with a combined vapor pressure not in excess of two millimeters of mercury at 20°C, the sole purpose of which is to impart an odor or scent, or to counteract a malodor.

<u>FURNITURE COATING</u> means any paint designed for application to room furnishings including, but not limited to, cabinets (such as kitchen, bath and vanity cabinets), tables, chairs, beds, and sofas.

<u>FURNITURE MAINTENANCE PRODUCT</u> means a wax, polish, conditioner, or any other product designed for the purpose of polishing, protecting or enhancing finished wood surfaces other than floors. Furniture Maintenance Product does not include Dusting Aids, Wood Cleaners and products designed solely for the purpose of cleaning, and products designed to leave a permanent finish such as stains, sanding sealers and lacquers.

<u>GEL</u> means a colloid in which the disperse phase has combined with the continuous phase to produce a semisolid material, such as jelly.

<u>GENERAL PURPOSE ADHESIVE</u> means any non-aerosol adhesive designed for use on a variety of types of substrates. General Purpose Adhesive does not include:

- 1. contact adhesives;
- 2. construction, panel, and floor covering adhesives;

3. adhesives designed exclusively for application on one specific category of substrates (*i.e.*, substrates that are composed of similar materials, such as different types of metals, paper products, ceramics, plastics, rubbers, or vinyls); or

4. adhesives designed exclusively for use on one specific category of articles (*i.e.*, articles that may be composed of different materials but perform a specific function, such as gaskets, automotive trim, weather-stripping, or carpets).

<u>GENERAL PURPOSE CLEANER</u> means a product designed for general all-purpose cleaning, in contrast to cleaning products designed to clean specific substrates in certain situations. General Purpose Cleaner includes products designed for general floor cleaning, kitchen or countertop cleaning, and cleaners designed to be used on a variety of hard surfaces and does not include general purpose degreasers and electronic cleaners.

<u>GENERAL PURPOSE DEGREASER</u> means any product labeled to remove or dissolve grease, grime, oil and other oil-based contaminants from a variety of types of substrates, including automotive or miscellaneous metallic parts. General Purpose Degreaser does not include Engine Degreaser, General Purpose Cleaner, Adhesive Remover, Electronic Cleaner, Electrical Cleaner, Energized Electrical Cleaner, Metal Polish/Cleanser, products used exclusively in solvent cleaning tanks or related equipment, or products that are:

1. sold exclusively to establishments that manufacture or construct goods or commodities; and

2. labeled "not for retail sale". Solvent cleaning tanks or related equipment includes, but is not limited to, cold cleaners, vapor degreasers, conveyorized degreasers, film cleaning machines, or products designed to clean miscellaneous metallic parts by immersion in a container.

<u>GENERAL-USE HAND OR BODY CLEANER OR SOAP</u> means a cleaner or soap designed to be used routinely on the skin to clean or remove typical or common dirt and soils. General-use Hand or Body Cleaner or Soap includes, but is not limited to, hand or body washes, dual-purpose shampoo-body cleaners, shower or bath gels, and moisturizing cleaners or soaps. General-use Hand or Body Cleaner or Soap does not include prescription drug products, Antimicrobial Hand or Body Cleaner or Soap, Astringent/Toner, Facial Cleaner or Soap, Hand Dishwashing Detergent, Heavy-duty Hand Cleaner or Soap, Medicated Astringent/Medicated Toner, or Rubbing Alcohol.

<u>GLASS CLEANER</u> means a cleaning product designed primarily for cleaning surfaces made of glass. Glass cleaner does not include products designed solely for the purpose of cleaning optical materials used in eyeglasses, photographic equipment, scientific equipment and photocopying machines.

<u>GRAFFITI REMOVER</u> means a product labeled to remove spray paint, ink, marker, crayon, lipstick, nail polish, or shoe polish, from a variety of non-cloth or non-fabric substrates. Graffiti Remover does not include Paint Remover or Stripper, Nail Polish Remover, or Spot Remover. Products labeled for dual use as both a paint stripper and graffiti remover are considered Graffiti Removers.

<u>GRAPHIC ARTS COATING OR SIGN PAINT</u> means a coating labeled and formulated for hand-application by artists using brush or roller techniques to indoor and outdoor signs (excluding structural components) and murals including letter enamels, poster colors, copy blockers, and bulletin enamels.

<u>HAIR MOUSSE</u> means a hair-styling foam designed to facilitate styling of a coiffure and provide limited holding power.

<u>HAIR SHINE</u> means any product designed for the primary purpose of creating a shine when applied to the hair. Hair Shine includes, but is not limited to, dual-use products designed primarily to impart sheen to the hair. Hair Shine does not include Hair Spray, Hair Mousse, Hair Styling Product, or products whose primary purpose is to condition or hold the hair.

HAIR SPRAY means a product that is applied to styled hair, and is designed or labeled to provide sufficient rigidity to hold, retain and/or (finish) the style of the hair for a period of time. Hair Spray includes aerosol hair sprays, pump hair sprays, spray waxes; color, glitter, or sparkle hairsprays that make finishing claims; and products that are both a styling and finishing product. Hair Spray does not include spray products that are intended to aid in styling but do not provide finishing of a hairstyle.

For the purposes of 310 CMR 7.25(11)(b): <u>HAIR SPRAY</u>, "finish" or "finishing" means the maintaining and/or holding of previously styled hair for a period of time. For the purposes of 310 CMR 7.25(11)(b): <u>HAIR SPRAY</u>, "styling" means the forming, sculpting, or manipulating of the hair to temporarily alter the hair's shape.

<u>HAIR STYLING PRODUCT</u> means a product manufactured on or after January 1, 2009, that is designed or labeled for the application to wet, damp, or dry hair to aid in defining, shaping, lifting, styling and/or sculpting the hair. Hair Styling Product includes, but is not limited to, hair balm, clay, cream, creme, curl straightener, gel, liquid, lotion, paste, pomade, putty, root lifter, serum, spray gel, stick, temporary hair straightener, wax, spray products that aid in styling but do not provide finishing of a hairstyle, and leave-in volumizers, detanglers and/or conditioners that make styling claims. Hair Styling Product does not include Hair Mousse, Hair Shine, Hair Spray, or shampoos and/or conditioners that are rinsed from the hair prior to styling.

For the purposes of 310 CMR 7.25(11)(b): <u>HAIR STYLING PRODUCT</u>, "finish" or "finishing" means the maintaining and/or holding of previously styled hair for a period of time, and "styling" means the forming, sculpting, or manipulating of the hair to temporarily alter the hair's shape.

<u>HEAVY-DUTY HAND CLEANER OR SOAP</u> means a product designed to clean or remove difficult dirt and soils such as oil, grease, grime, tar, shellac, putty, printer's ink, paint, graphite, cement, carbon, asphalt, or adhesives from the body with or without the use of water. Heavy-duty Hand Cleaner or Soap does not include prescription drug products, Antimicrobial Hand or Body Cleaner or Soap, Astringent/Toner, Facial Cleaner or Soap, General-use Hand or Body Cleaner or Soap, Medicated Astringent/Medicated Toner or Rubbing Alcohol.

<u>HERBICIDE</u> means a pesticide product designed to kill or retard a plant's growth, but excludes products that are:

- 1. for agricultural use; or
- 2. restricted materials that require a permit for use and possession.

<u>HIGH VOLATILITY ORGANIC COMPOUND (HVOC)</u> means any volatile organic compound that exerts a vapor pressure greater than 80 millimeters of mercury when measured at 20°C.

<u>HOUSEHOLD PRODUCT</u> means any consumer product that is primarily designed to be used inside or outside of living quarters or residences that are occupied or intended for occupation by individuals, including the immediate surroundings.

<u>INSECTICIDE</u> means a pesticide product that is designed for use against insects or other arthropods, but excluding products that are:

1. for agricultural use; or

2. for a use that requires a structural pest control license under the Massachusetts Pesticide Control Act; or

3. restricted materials that require a permit for use and possession.

<u>INSECTICIDE FOGGER</u> means any insecticide product designed to release all or most of its content, as a fog or mist, into indoor areas during a single application.

INSTITUTIONAL PRODUCT OR INDUSTRIAL AND INSTITUTIONAL (I&I) PRODUCT means a consumer product that is designed for use in the maintenance or operation of an establishment that:

1. manufactures, transports, or sells goods or commodities, or provides services for profit; or

2. is engaged in the nonprofit promotion of a particular public, educational, or charitable cause. Establishments include, but are not limited to, government agencies, factories, schools, hospitals, sanitariums, prisons, restaurants, hotels, stores, automobile service and parts centers, health clubs, theaters, or transportation companies. Institutional Product does not include household products and products that are incorporated into or used exclusively in the manufacture or construction of the goods or commodities at the site of the establishment.

<u>LABEL</u> means any written, printed, or graphic matter affixed to, applied to, attached to, blown into, formed, molded into, embossed on, or appearing upon any product or product package, for purposes of branding, identifying, or giving information with respect to the product or to the contents of the package.

<u>LAUNDRY PREWASH</u> means a product that is designed for application to a fabric prior to laundering and that supplements and contributes to the effectiveness of laundry detergents and/or provides specialized performance.

<u>LAUNDRY STARCH PRODUCT</u> means a product that is designed for application to a fabric, either during or after laundering, to impart and prolong a crisp, fresh look and may also act to help ease ironing of the fabric. Laundry Starch Product includes, but is not limited to, fabric finish, sizing, and starch.

<u>LAWN AND GARDEN INSECTICIDE</u> means an insecticide product labeled primarily to be used in household lawn and garden areas to protect plants from insects or other arthropods.

<u>LIQUID</u> means a substance or mixture of substances that is capable of a visually detectable flow as determined under ASTM D4359-90(2000)e1, D 4359 90 *Standard Test Method For Determining Whether A Material Is A Liquid Or A Solid*, ASTM International. Liquid does not include powders or other materials that are composed entirely of solid particles.

<u>LVP-VOC</u> or Low-Vapor-Pressure VOC means a chemical compound or mixture that contains at least one carbon atom and meets one of the following:

1. has a vapor pressure less than 0.1 millimeters of mercury at 20°C, as determined by CARB Method 310; or

2. is a chemical compound with more than 12 carbon atoms, or a chemical mixture comprised solely of compounds with more than 12 carbon atoms as verified by formulation data, and the vapor pressure and boiling point are unknown; or

3. is a chemical compound with a boiling point greater than 216°C, as determined by CARB Method 310; or

4. is the weight percent of a chemical mixture that boils above 216° C, as determined by CARB Method 310.

For the purposes of 310 CMR 7.25(11)(b): <u>LVP-VOC</u>, chemical compound means a molecule of definite chemical formula and isomeric structure, and chemical "mixture" means a substrate comprised of two or more chemical compounds.

<u>MANUFACTURER</u> means any person who manufactures, processes, imports, assembles, produces, packages, repackages, or re-labels a product.

<u>MEDICATED ASTRINGENT/MEDICATED TONER</u> means any product regulated as a drug by the FDA that is applied to the skin for the purpose of cleaning or tightening pores. Medicated Astringent/Medicated Toner includes, but is not limited to, clarifiers and substrate-impregnated products. Medicated Astringent/Medicated Toner does not include hand, face, or body cleaner or soap products, Astringent/Toner, cold cream, lotion, antiperspirants, or products that must be purchased with a doctor's prescription.

<u>MEDIUM VOLATILITY ORGANIC COMPOUND (MVOC)</u> means any volatile organic compound that exerts a vapor pressure greater than two millimeters of mercury and less than or equal to 80 millimeters of mercury when measured at 20°C.

<u>METAL POLISH/CLEANSER</u> means any product designed primarily to improve the appearance of finished metal, metallic, or metallized surfaces by physical or chemical action. To improve the appearance means to remove or reduce stains, impurities, or oxidation from surfaces or to make surfaces smooth and shiny. Metal Polish/Cleanser includes, but is not limited to, metal polishes used on brass, silver, chrome, copper, stainless steel and other ornamental metals. Metal Polish/Cleanser does not include Automotive Wax, Polish, Sealant or Glaze, wheel cleaner, Paint Remover or Stripper, products designed and labeled exclusively for automotive and marine detailing, or products designed for use in degreasing tanks.

<u>MIST SPRAY ADHESIVE</u> means any aerosol that is not a special purpose spray adhesive and which delivers a particle or mist spray, resulting in the formation of fine, discrete particles that yield a generally uniform and smooth application of adhesive to the substrate.

<u>MULTI-PURPOSE DRY LUBRICANT</u> means any lubricant that is:

1. designed and labeled to provide lubricity by depositing a thin film of graphite, molybdenum disulfide (moly), or polytetrafluoroethylene or closely related fluoropolymer (teflon) on surfaces; and

2. designed for general purpose lubrication, or for use in a wide variety of applications.

<u>MULTI-PURPOSE LUBRICANT</u> means any lubricant designed for general purpose lubrication, or for use in a wide variety of applications. Multi-purpose Lubricant does not include Multi-purpose Dry Lubricants, Penetrants, or Silicone-based Multi-purpose Lubricants.

<u>MULTI-PURPOSE SOLVENT</u> means any organic liquid designed to be used for a variety of purposes, including cleaning or degreasing of a variety of types of substrates, or thinning, dispersing or dissolving other organic materials. Multi-purpose Solvent includes solvents used in institutional facilities, except for laboratory reagents used in analytical, educational, research, scientific or other laboratories. Multi-purpose Solvent does not include solvents used in cold cleaners, vapor degreasers, conveyorized degreasers or film cleaning machines, or solvents that are incorporated into, or used exclusively in the manufacture or construction of, the goods or commodities at the site of the establishment.

<u>NAIL POLISH</u> means any clear or colored coating designed for application to the fingernails or toenails and including but not limited to, lacquers, enamels, acrylics, base coats, and top coats.

<u>NAIL POLISH REMOVER</u> means a product designed to remove nail polish and coatings from fingernails or toenails.

<u>NON-AEROSOL PRODUCT</u> means any consumer product that is not dispensed by a pressurized spray system.

<u>NON-CARBON CONTAINING COMPOUND</u> means any compound that does not contain any carbon atoms.

<u>NON-RESILIENT FLOORING</u> means flooring of a mineral content that is not flexible. Non-Resilient Flooring includes terrazzo, marble, slate, granite, brick, stone, ceramic tile and concrete.

<u>NON-SELECTIVE TERRESTRIAL HERBICIDE</u> means a terrestrial herbicide product that is toxic to plants without regard to species.

<u>OVEN CLEANER</u> means any cleaning product designed to clean and to remove dried food deposits from oven walls.

<u>PAINT</u> means any pigmented liquid, liquefiable, or mastic composition designed for application to a substrate in a thin layer that is converted to an opaque solid film after application and is used for protection, decoration or identification, or to serve some functional purpose such as the filling or concealing of surface irregularities or the modification of light and heat radiation characteristics.

<u>PAINT REMOVER OR STRIPPER</u> means any product designed to strip or remove paints or other related coatings, by chemical action, from a substrate without markedly affecting the substrate. Paint Remover or Stripper does not include Multi-purpose Solvents, paintbrush cleaners, products designed and labeled exclusively as Graffiti Removers, and hand cleaner products that claim to remove paints and other related coatings from skin.

<u>PENETRANT</u> means a lubricant designed and labeled primarily to loosen metal parts that have bonded together due to rusting, oxidation, or other causes. Penetrant does not include Multi-purpose Lubricants that claim to have penetrating qualities, but are not labeled primarily to loosen bonded parts.

<u>PERSONAL FRAGRANCE PRODUCT</u> means any product which is applied to the human body or clothing for primary purpose of adding a scent, or masking a malodor, including cologne, perfume, aftershave, and toilet water. Personal Fragrance Product does not include:

1. Deodorant;

2. medicated products designed primarily to alleviate fungal or bacterial growth on feet or other areas of the body;

3. mouthwashes, breath fresheners and deodorizers;

4. lotions, moisturizers, powders or other skin care products used primarily to alleviate skin conditions such as dryness and irritations;

- 5. products designed exclusively for use on human genitalia;
- 6. soaps, shampoos, and products primarily used to clean the human body; and
- 7. fragrance products designed to be used exclusively on non-human animals.

<u>PESTICIDE</u> means and includes any substance or mixture of substances labeled, designed, or intended for use in preventing, destroying, repelling or mitigating any pest, or any substance or mixture of substances labeled, designed, or intended for use as a defoliant, desiccant, or plant regulator, provided that the term "pesticide" does not include any substance, mixture of substances, or device that the United States Environmental Protection Agency does not consider to be a pesticide.

<u>PRESSURIZED GAS DUSTER</u> means a pressurized product labeled to remove dust from a surface solely by means of mass air or gas flow, including surfaces such as photographs, photographic film negatives, computer keyboards, and other types of surfaces that cannot be cleaned with solvents. Pressurized Gas Duster does not include Dusting Aid.

<u>PRINCIPAL DISPLAY PANEL OR PANELS</u> means that part or those parts of a label that are so designed as to most likely be displayed, presented, shown or examined under normal and customary conditions of display or purchase. Whenever a principal display panel appears more than once, all requirements pertaining to the principal display panel shall pertain to all such principal display panels.

<u>PRODUCT BRAND NAME</u> means the name of the product exactly as it appears on the principal display panel of the product.

<u>PRODUCT CATEGORY</u> means the applicable category that best describes the product as listed in Definitions.

<u>PRODUCT LINE</u> means a group of products of identical form and function belonging to the same product category or categories.

<u>PROPELLANT</u> means a liquefied or compressed gas that is used in whole or in part, such as a co-solvent, to expel a liquid or any other material from the same self-pressurized container or from a separate container.

<u>PUMP SPRAY</u> means a packaging system in which the product ingredients within the container are not under pressure and in which the product is expelled only while a pumping action is applied to a button, trigger or other actuator.

<u>RESPONSIBLE PARTY</u> means the company, firm or establishment that is listed on the product label. If the label lists two companies, firms or establishments, the responsible party is the party that the product was manufactured for or distributed by, as noted on the label.

<u>RESTRICTED MATERIALS</u> means pesticides established as restricted materials under applicable Massachusetts laws or regulations.

<u>RETAIL OUTLET</u> means any establishment at which consumer products are sold, supplied, or offered for sale directly to consumers.

<u>RETAILER</u> means any person who sells, supplies, or offers consumer products for sale directly to consumers.

<u>ROLLON PRODUCT</u> means any antiperspirant or deodorant that dispenses active ingredients by rolling a wetted ball or wetted cylinder on the affected area.

<u>RUBBER AND VINYL PROTECTANT</u> means any product designed to protect, preserve or renew vinyl, rubber, and plastic on vehicles, tires, luggage, furniture, and household products such as vinyl covers, clothing, and accessories. Rubber and Vinyl Protectant does not include products primarily designed to clean the wheel rim, such as aluminum or magnesium wheel cleaners, and tire cleaners that do not leave an appearance-enhancing or protective substance on the tire.

<u>RUBBING ALCOHOL</u> means any product containing isopropyl alcohol (also called isopropanol) or denatured ethanol and labeled for topical use, usually to decrease germs in minor cuts and scrapes, to relieve minor muscle aches, as a rubefacient, and for massage.

<u>SEALANT AND CAULKING COMPOUND</u> means any product with adhesive properties that is designed to fill, seal, waterproof, or weatherproof gaps or joints between two surfaces. Sealant and Caulking Compound does not include roof cements and roof sealants; insulating foams; removable caulking compounds; clear, paintable, or water resistant caulking compounds; floor seam sealers; products designed exclusively for automotive uses; or sealers that are applied as continuous coatings. Sealant and Caulking Compound also does not include units of product, less packaging, which weigh more than one pound and consist of more than 16 fluid ounces. For the purposes of 310 CMR 7.25(11)(b):

<u>SEALANT AND CAULKING COMPOUND</u> only, removable caulking compound means a compound that temporarily seals windows or doors for three to six month time intervals. For the purposes of 310 CMR 7.25(11)(b): <u>SEALANT AND CAULKING COMPOUND</u> only, clear/paintable/water resistant caulking compound means a compound that:

- 1. contains no appreciable level of opaque fillers or pigments;
- 2. transmits most or all visible light through the caulk when cured;
- 3. is paintable; and
- 4. is immediately resistant to precipitation upon application.

<u>SEMISOLID</u> means a product that, at room temperature, will not pour, but will spread or deform easily, including but not limited to gels, pastes, and greases.

<u>SHAVING CREAM</u> means an aerosol product that dispenses a foam lather intended to be used with a blade or cartridge razor, or other wet shaving system, in the removal of facial or other bodily hair. Shaving Cream does not include Shaving Gel.

<u>SHAVING GEL</u> means an aerosol product that dispenses a post-foaming semisolid designed to be used with a blade, cartridge razor, or other shaving system in the removal of facial or other bodily hair. Shaving Gel does not include Shaving Cream.

SILICONE-BASED MULTI-PURPOSE LUBRICANT means any lubricant that is:

1. signed and labeled to provide lubricity primarily through the use of silicone compounds including, but not limited to, polydimethylsiloxane; and

2. designed and labeled for general purpose lubrication, or for use in a wide variety of applications. Silicone-based Multi-purpose Lubricant does not include products designed and labeled exclusively to release manufactured products from molds.

<u>SINGLE-PHASE AEROSOL AIR FRESHENER</u> means an aerosol air freshener with the liquid contents in a single homogeneous phase and that does not require that the product container be shaken before use.

<u>SOLID</u> means a substance or mixture of substances that, either whole or subdivided (such as the particles comprising a powder), is not capable of visually detectable flow as determined under ASTM D4359-90(2000)e1, *Standard Test Method For Determining Whether A Material Is A Liquid Or A Solid*, ASTM International.

<u>SPECIAL PURPOSE SPRAY ADHESIVE</u> Means an aerosol adhesive that meets any of the following definitions:

1. <u>MOUNTING ADHESIVE</u> means an aerosol adhesive designed to permanently mount photographs, artwork, and any other drawn or printed media to a backing (such as paper, board, cloth, etc.) without causing discoloration to the artwork.

2. <u>FLEXIBLE VINYL ADHESIVE</u> means an aerosol adhesive designed to bond flexible vinyl to substrates. Flexible vinyl means a non-rigid polyvinyl chloride plastic with at least 5%, by weight, of plasticizer content. A plasticizer is a material, such as a high boiling point organic solvent, that is incorporated into a plastic to increase its flexibility, workability, or distensibility, and may be determined using ASTM D1045-95(2001), "*Standard Test Methods for Sampling and Testing Plasticizers Used in Plastics*," ASTM International, or from product formulation data.

3. <u>POLYSTYRENE FOAM ADHESIVE</u> means an aerosol adhesive designed to bond polystyrene foam to substrates.

4. <u>AUTOMOBILE HEADLINER ADHESIVE</u> means an aerosol adhesive designed to bond together layers in motor vehicle headliners.

5. <u>POLYOLEFIN ADHESIVE</u> means an aerosol adhesive designed to bond polyolefins to substrates.

6. <u>LAMINATE REPAIR/EDGEBANDING ADHESIVE</u> means an aerosol adhesive designed for:

a. The touch-up or repair of items laminated with high-pressure laminates (*e.g.*, lifted edges, delaminates, *etc.*); or

b. The touch-up, repair, or attachment of edge-bonding materials, including but not limited to, other laminates, synthetic marble, veneers, wood molding, and decorative metals.

For the purposes of this definition, high pressure laminate means sheet materials that consist of paper, fabric, or other core material that have been laminated at temperatures exceeding 265° F, and at pressures between 1,000 and 1,400 psi.

7. <u>AUTOMOTIVE ENGINE COMPARTMENT ADHESIVE</u> means an aerosol adhesive designed for use in motor vehicle under-the-hood applications that require oil and plasticizer resistance, as well as high shear strength, at temperatures of 93°C through 135°C.

<u>SPOT REMOVER</u> means any product labeled to clean localized areas, or remove localized spots or stains on cloth or fabric such as drapes, carpets, upholstery, and clothing, that does not require subsequent laundering to achieve stain removal. Spot Remover does not include Dry Cleaning Fluid, Laundry Prewash, or Multi-purpose Solvent.

<u>SPRAY BUFF PRODUCT</u> means a product designed to restore a worn floor finish in conjunction with a floor buffing machine and special pad.

<u>STICK PRODUCT</u> means any antiperspirant or deodorant that contains active ingredients in a solid matrix form, and that dispenses the active ingredients by frictional action on the affected area.

<u>STRUCTURAL WATERPROOF ADHESIVE</u> means an adhesive whose bond lines are resistant to conditions of continuous immersion in fresh or salt water, and that conforms with Federal Specification MMM-A-181D (Type 1, Grade A).

TERRESTRIAL means to live on or grow from land.

<u>TIRE SEALANT AND INFLATION</u> means any pressurized product that is designed to temporarily inflate and seal a leaking tire.

<u>TOILET/URINAL CARE PRODUCT</u> means any product designed or labeled to clean and/or to deodorize toilet bowls, toilet tanks, or urinals. Toilet bowls, toilet tanks, or urinals include, but are not limited to, toilets or urinals connected to permanent plumbing in buildings and other structures, portable toilets or urinals placed at temporary or remote locations, and toilet or urinals in vehicles such as buses, recreational motor homes, boats, ships, and aircraft. Toilet/Urinal Care Product does not include Bathroom and Tile Cleaner or General Purpose Cleaner.

<u>TYPE A PROPELLENT</u> means a compressed gas such as CO_2 , N_2 , N_2O , or compressed air that is used as a propellant, and is either incorporated with the product or contained in a separate chamber within the product's packaging.

<u>TYPE B PROPELLENT</u> means any halocarbon that is used as a propellant, including chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), and hydrofluorocarbons (HFCs).

<u>TYPE C PROPELLENT</u> means any propellant that is not a Type A or Type B propellant, including propane, isobutane, n-butane, and dimethyl ether (also known as dimethyl oxide).

<u>UNDERCOATING</u> means any aerosol product designed to impart a protective, non-paint layer to the undercarriage, trunk interior, and/or firewall of motor vehicles to prevent the formation of rust or to deaden sound. Undercoating includes, but is not limited to, rubberized, mastic, or asphaltic products.

<u>USAGE DIRECTIONS</u> means the text or graphics on the product's principal display panel, label, or accompanying literature that describes to the end user how and in what quantity the product is to be used.

<u>VINYL/FABRIC/LEATHER/POLYCARBONATE COATING</u> means a coating designed and labeled exclusively to coat vinyl, fabric, leather, or polycarbonate substrates.

<u>VOC CONTENT</u> means except for charcoal lighter products, the total weight of VOC in a consumer product expressed as a percentage of the product weight (exclusive of the container or packaging), as determined pursuant to 310 CMR 7.25(12)(h)1.

For charcoal lighter material products only,

VOC CONTENT = Certified Emissions * 100 / Certified Use Rate.

Where:

Certified Emissions = the emissions level for products approved by the CARB and as determined pursuant to South Coast Air Quality Management District Rule 1174 Ignition Method Compliance Certification Protocol (February 27, 1991), expressed to the nearest 0.001 pound CH2 per start.

Certified Use Rate = the usage level for products approved by CARB and as determined pursuant to South Coast Air Quality Management District Rule 1174 Ignition Method Compliance Certification Protocol (February 27, 1991), expressed to the nearest 0.001 pound certified product used per start.

<u>WASP AND HORNET INSECTICIDE</u> means any insecticide product that is designed for use against wasps, hornets, yellow jackets or bees by allowing the user to spray from a distance a directed stream or burst at the intended insects, or their nest.

<u>WATERPROOFER</u> means a product designed and labeled exclusively to repel water from fabric or leather substrates. Waterproofer does not include Fabric Protectants.

<u>WAX</u> means a material or synthetic thermoplastic substance generally of high molecular weight hydrocarbons or high molecular weight esters of fatty acids or alcohols, except glycerol and high polymers (plastics). Wax includes, but is not limited to, substances derived from the secretions of plants and animals such as carnuba wax and beeswax, substances of a mineral origin such as ozocerite and paraffin, and synthetic polymers such as polyethylene.

<u>WEB SPRAY ADHESIVE</u> means any aerosol adhesive that is not a mist spray or special purpose spray adhesive.

<u>WOOD CLEANER</u> means a product labeled to clean wooden materials including, but not limited to, decking, fences, flooring, logs, cabinetry, and furniture. Wood Cleaner does not include Dusting Aid, General Purpose Cleaner, Furniture Maintenance Product, Floor Wax Stripper, Floor Polish or Wax, or products designed and labeled exclusively to preserve or color wood.

WOOD FLOOR WAX means wax based products for use solely on wood floors.

(c) <u>Standards</u>.

1. <u>VOC Content Limits</u>. Except as provided in 310 CMR 7.25(12)(d) (Variances), 310 CMR 7.25(12)(e) (Innovative Products), and 310 CMR 7.25(12)(i) (Alternative Control Plans), no person subject to 310 CMR 7.25 shall:

a. manufacture for use within Massachusetts; or

b. sell, supply, or offer for sale within Massachusetts any consumer product that contains volatile organic compounds in excess of the limits specified in 310 CMR 7.25(11)(c)1.: *Table 2*.

Table 2.	VOC Content Limits	for Consumer Products	Effective January 1, 2009
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Product Category	Percent VOC by
	Weight (%W)
Adhesive Removers	
Floor or Wall Covering	5
Gasket or Thread Locking	50
General Purpose	20
Specialty	70
Adhesives	
Aerosol:	
Mist Spray	65
Web Spray	55
Special Purpose Spray Adhesives:	
Mounting; Automotive Engine Compartment; Flexible Vinyl	70
Polystyrene Foam and Automobile Headliner	65
Polyolefin and Laminate Repair/Edgebanding	60
Construction, Panel, and Floor Covering	15
Contact:	
General Purpose	55
Special Purpose	80
General Purpose	10
Structural Waterproof	15
Air Fresheners	
Single-phase Aerosols	30
Double-phase Aerosols	25
Liquids/pump Sprays	18
Solids/Semisolid	3
Antiperspirants	
Aerosol	40 HVOC
	10 MVOC
Non-aerosol	0 HVOC
	0 MVOC
Anti-static	
Non-aerosol	11
Automotive Brake Cleaners	45
Automotive Rubbing or Polishing Compound	17
Automotive Wax, Polish, Sealant or Glaze	
Hard Paste Waxes	45
I Instant Detailers	3
All Other Forms	15
Automotive Windshield Washer Fluids	35
Bathroom and Tile Cleaners	7
Aerosols	7
All Other Forms	5
Bug and Tar Remover	40
Carburetor or Fuel-injection Air Intake Cleaners	45

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

Product Category	Percent VOC by
Troduct Category	Weight (%W)
Carpet and Upholstery Cleaners	(vergite (70 vv)
Aerosols	7
Non-aerosols (Dilutables)	0.1
Non-aerosols (Ready-to-Use)	3.0
Charcoal Lighter Material	See 310 CMR 7.25(12)(c)8.
Cooking Spray Aerosols	18
Deodorants	10
Aerosol	0 HVOC
	10 MVOC
Non-aerosol	0 HVOC
	0 MVOC
Dusting Aids	
Aerosols	25
All Other Forms	7
Engine Degreasers	<i>,</i>
Aerosols	35
Non-aerosols	5
Electrical Cleaner	45
Electronic Cleaner	75
Fabric Protectants	60
Fabric Refresher	
Aerosol	15
Non-aerosol	6
Floor Polishes/ Waxes	0
Products for Flexible Flooring Materials	7
Products for Non-resilient Flooring	10
Wood Floor Wax	90
Floor Wax Strippers	
Non-aerosol	See 310 CMR 7.25(12)(c)10.
Footwear or Leather Care Products	See 510 chine (125(12)(c)10.
Aerosol	75
Solid	55
All Other Forms	15
Furniture Maintenance Products	10
Aerosols	17
All other Forms Except Solid or Paste	7
Graffiti Remover	,
Aerosol	50
Non-aerosols	30
General Purpose Cleaners	~
Aerosols	10
Non-aerosols	4
General Purpose Degreasers	
Aerosols	50
Non-aerosols	4
Glass Cleaners	
Aerosols	12
Non-aerosols	4
Hair Mousses	6
Hair Shines	55
Hair Sprays	55
Hair Styling Products	
Aerosol and Pump Sprays	6
All Other Forms	2
Heavy-duty Hand Cleaner or Soap	8

Product Category	Percent VOC by
	Weight (%W)
Insecticides	
Crawling Bug (Aerosol)	15
Crawling Bug (all other forms)	20
Flea and Tick	25
Flying Bug (Aerosol)	25
Flying Bug (all other forms)	35
Foggers	45
Lawn and Garden (all other forms)	20
Lawn and Garden (Non-Aerosol)	3
Wasp and Hornet	40
Laundry Prewash	
Aerosol / Solids	22
All Other Forms	5
Laundry Starch Products	5
Metal Polishes/ Cleansers	30
Multi-purpose Lubricant (Excluding Solid or Semi-solid Products)	50
Nail Polish Remover	75
Non-selective Terrestrial Herbicide	
Non-aerosols	3
Oven Cleaners	
Aerosols/Pump Sprays	8
Liquids	5
Paint Remover or Stripper	50
Penetrants	50
Rubber and Vinyl Protectants	
Aerosols	10
Non-aerosols	3
Sealants and Caulking Compounds	4
Shaving Creams	5
Shaving Gel	7
Silicone-based Multi-Purpose Lubricants	,
(Excluding Solid or Semi-solid Products)	60
Spot Removers	00
Aerosols	25
Non-aerosols	8
Tire Sealants and Inflators	20
Toilet/Urinal Care Products	20
Aerosol	10
Non-aerosols	3
Undercoatings	5
Aerosols	40
Wood Cleaner	עד
Aerosol	17
Non-aerosols	4

2. <u>Most Restrictive Limit</u>. Notwithstanding the definition of product category in 310 CMR 7.25(12)(b), if anywhere on the container or packaging of any consumer product manufactured on or after January 1, 2009, or any FIFRA-registered insecticide manufactured on or after January 1, 2010, or on any sticker or label affixed thereto, any representation is made that the product may be used as, or is suitable for use as a consumer product for which a lower VOC limit is specified in 310 CMR 7.25(12)(c)1., then the lowest VOC limit shall apply. This requirement does not apply to general purpose cleaners, antiperspirant/deodorant products and insecticide foggers. This lowest VOC limit requirement shall apply to the consumer product irrespective of whether the definition of the consumer product category, as defined in 310 CMR 7.25(12)(b), explicitly excludes the other consumer product category or categories that have been represented in the product's labeling information.

3. <u>Sell-through of Consumer Products</u>.

a. A consumer product listed in 310 CMR 7.25(12)(c)1.: *Table 2* and manufactured prior to the effective date specified in 310 CMR 7.25(12)(c)1., may be sold, supplied, or offered for sale after the effective date specified in 310 CMR 7.25(12)(c)1.: *Table 2*, so long as the consumer product complied with the VOC content standards and other applicable requirements in effect at the time the consumer product was manufactured. This does not apply to the following:

i. Any consumer product that does not display on the product container or package the date on which the product was manufactured, or a code indicating such date, in accordance with 310 CMR 7.25(12)(f)1.

ii. Any consumer product on which the manufacturer has used a code indicating the date of manufacture that is different than the code specified in 310 CMR 7.25(12)(f)1.e.ii, but an explanation of the code has not been filed with the Department by the deadlines specified in 310 CMR 7.25(12)(f)1.e.i.

iii. Solid Air Fresheners and Toilet/Urinal Care Products that contain paradichlorobenzene. These products are subject to a one-year sell-through period as provided in 310 CMR 7.25(12)(c)13.b.

4. Exclusions.

a. The VOC content standards specified in 310 CMR 7.25(12)(c)1. shall not apply to:

i. Any LVP-VOC.

ii. Fragrances up to a combined level of 2% by weight contained in any consumer product, and colorants up to a combined level of 2% by weight contained in any antiperspirant or deodorant.

iii. VOCs that contain more than ten carbon atoms per molecule and for which the vapor pressure is unknown, or that have a vapor pressure of two mm Hg or less at 20°C in antiperspirants or deodorants.

iv. Air fresheners that are comprised entirely of fragrance, less compounds not defined as VOCs in 310 CMR 7.25(12)(b) or exempted under 310 CMR 7.25(12)(c)4.a.i.

v. Insecticides containing at least 98% paradichlorobenzene.

vi. Adhesives sold in containers of one fluid ounce or less.

vii. <u>Bait Station Insecticides</u>. For the purpose of 310 CMR 7.25(11)(c)4., bait station insecticides are containers enclosing an insecticidal bait that is not more than 0.5 ounce by weight, where the bait is designed to be ingested by insects and is composed of solid material feeding stimulants with less than 5% active ingredients.

b. The medium volatility organic compound (MVOC) content standards specified in 310 CMR 7.25(12)(c)1. for antiperspirants or deodorants shall not apply to ethanol.

5. <u>Use of Toxic Air Contaminants in Antiperspirant or Deodorant</u>. No person shall sell, supply, offer for sale, or manufacture any antiperspirant or deodorant for use in Massachusetts that contains any compound that has been identified by the CARB in Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 7, Section 93000, as a toxic air contaminant.

- 6. <u>Products that are Diluted Prior to Use</u>.
 - a. For consumer products for which the label, packaging, or accompanying literature specifically states that the product should be diluted with water or non-VOC solvent prior to use, the limits specified in 310 CMR 7.25(12)(c)1. shall apply to the product only after the minimum recommended dilution has taken place. For purposes of 310 CMR 7.25(11)(c)6., minimum recommended dilution shall not include recommendations for incidental use of a concentrated product to deal with limited special applications such as hard-to-remove soils or stains.

b. For consumer products for which the label, packaging, or accompanying literature states that the product should be diluted with any VOC solvent prior to use, the limits specified in 310 CMR 7.25(12)(c)1. shall apply to the product only after the maximum recommended dilution has taken place.

7. Products Registered Under FIFRA.

a. For consumer products registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA; 7 U.S.C. § 136-136y), the effective date of the VOC standards is one year after the date specified in 310 CMR 7.25(12)(c)1.: *Table 2* Such products shall also be registered under the Massachusetts Pesticide Control Act.
b. The labeling requirements of 310 CMR 7.25(12)(f) do not apply to products that are registered as pesticides under FIFRA and under the Massachusetts Pesticide Control Act.

8. <u>Charcoal Lighter Materials</u>. No person shall sell, supply, offer for sale or manufacture for use in Massachusetts any charcoal lighter materials as defined in 310 CMR 7.25(12)(b) unless the manufacturer of that product has been granted a currently effective charcoal lighter materials certification (Executive Order) for that product by CARB under the Consumer Products provisions of Title 17 California Code of Regulations, § 94509(h). A copy of the certification decision by CARB, including all conditions established by CARB applicable to the certification, shall be submitted to the Department within 30 days upon the Department's written request.

9. <u>Aerosol Adhesives</u>.

a. These standards apply to all uses of aerosol adhesives, including consumer, industrial, and commercial uses. Except as otherwise provided in 310 CMR 7.25(12)(c)3. (Sell-Through of Consumer Products), 310 CMR 7.25(12)(d) (Variances), 310 CMR 7.25(12)(e) (Innovative Products), and 310 CMR 7.25(12)(i) (Alternative Control Plans), no person shall sell, supply, offer for sale, or manufacture any aerosol adhesive for use in Massachusetts that, at the time of sale, use, or manufacture, contains VOCs in excess of the specified standard.

b. No person shall sell, supply, offer for sale, or manufacture any aerosol adhesive for use in Massachusetts that, at the time of sale, use, or manufacture, contains any of the following compounds: methylene chloride, perchloroethylene, or trichloroethylene.

c. If a product meets more than one of the definitions specified in 310 CMR 7.25(12)(b) for Special Purpose Spray Adhesive, then the VOC limit for the product shall be the lowest applicable VOC limit specified in 310 CMR 7.25(12)(c)1.: *Table 2*.

10. <u>Floor Wax Strippers</u>. Effective January 1, 2009, no person shall sell, supply, offer for sale or manufacture any floor wax stripper for use in Massachusetts unless the following requirements are met:

a. The label of each non-aerosol floor wax stripper must specify a dilution ratio for light or medium build-up of polish that results in an as-used VOC concentration of 3% by weight or less.

b. If a non-aerosol floor wax stripper is also intended to be used for removal of heavy build-up of polish, the label of that floor wax stripper must specify a dilution ratio for its use on heavy build-up of polish that results in an as-used VOC concentration of 12% by weight or less.

c. The term "light build-up", "medium build-up", or "heavy build-up" is not specifically required, as long as comparable terminology is used.

11. <u>Contact Adhesives, Electronic Cleaners, Footwear or Leather Care Products, and</u> <u>General Purpose Degreasers.</u>

a. Except as provided in 310 CMR 7.25(12)(c)11.b., 310 CMR 7.25(12)(c)11.c., and 310 CMR 7.25(12)(c)11.d., effective January 1, 2009, no person shall sell, supply, offer for sale, or manufacture for use in Massachusetts any contact adhesive, electronic cleaner, footwear or leather care product, or general purpose degreaser that contains any of the following compounds: methylene chloride, perchloroethylene, or trichloroethylene.

b. <u>Impurities</u>. The requirements of 310 CMR 7.25(12)(c)11.a. shall not apply to any contact adhesive, electronic cleaner, footwear or leather care product, or general purpose degreaser containing methylene chloride, perchloroethylene, or trichloroethylene that is present as an impurity in a combined amount equal to or less than 0.01% by weight.

c. <u>Sell-through of Products</u>. Contact adhesives, electronic cleaners, footwear or leather care products, and general purpose degreasers that contain methylene chloride, perchloroethylene, or trichloroethylene and were manufactured before January 1, 2009, may be sold, supplied, or offered for sale until January 1, 2012, so long as the product container or package displays the date on which the product was manufactured, or a code indicating such date, in accordance with 310 CMR 7.25(12)(f).

d. Notification for products sold during the sell-through period. Any person who sells or supplies a consumer product subject to standards in 310 CMR 7.25(12)(c)11.a. shall notify, in writing, the purchaser that the sell-through period for that product will end on January 1, 2012 if both of the following conditions are met:

- (i) the product is sold or supplied to a distributor or retailer; and
- (ii) the product is sold or supplied on or after June 30, 2012.
- 12. Adhesive Removers, Electrical Cleaners, and Graffiti Removers.

a. Except as provided below in 310 CMR 7.25(12)(c)12.b., effective January 1, 2009, no person shall sell, supply, offer for sale, or manufacture for use in Massachusetts any adhesive remover, electrical cleaner, or graffiti remover that contains any of the following compounds: methylene chloride, perchloroethylene, or trichloroethylene.

b. <u>Impurities</u>. The requirements of 310 CMR 7.25(12)(c)12.a. shall not apply to any adhesive remover, electrical cleaner, or graffiti remover containing methylene chloride, perchloroethylene, or trichloroethylene that is present as an impurity in a combined amount equal to or less than 0.01% by weight.

c. <u>Sell-through of Products</u>. adhesive removers, electrical cleaners, and graffiti removers that contain methylene chloride, perchloroethylene, or trichloroethylene and were manufactured before January 1, 2009, may be sold, supplied, or offered for sale until January 1, 2012, so long as the product container or package displays the date on which the product was manufactured, or a code indicating such date, in accordance with 310 CMR 7.25(12)(f).

d. <u>Notification for Products Sold During the Sell-through Period</u>. Any person who sells or supplies a consumer product subject to standards in 310 CMR 7.25(12)(c)12.a. shall notify, in writing, the purchaser that the sell-through period for that product will end on January 1, 2012 if both of the following conditions are met:

(i) the product is sold or supplied to a distributor or retailer; and

(ii) the product is sold or supplied on or after June 30, 2012.

13. Solid Air Fresheners and Toilet/Urinal Care Products.

a. Effective January 1, 2009, no person shall sell, supply, offer for sale, or manufacture for use in Massachusetts any solid air freshener or toilet/urinal care products that contain para-dichlorobenzene.

b. Solid air fresheners and toilet/urinal care products that contain paradichlorobenzene and were manufactured before January 1, 2009 may be sold, supplied, or offered for sale until January 1, 2010, so long as the product container or package displays the date on which the product was manufactured, or a code indicating such date, in accordance with 310 CMR 7.25(12)(f).

14. Products Containing Ozone-depleting Compounds.

a. Effective January 1, 2009, no person shall sell, supply, offer for sale or manufacture for use in Massachusetts any consumer product that contains any of the following ozone-depleting compounds:

CFC-11 (trichlorofluoromethane), CFC-12 (dichlorodifluoromethane),

CFC-113 (1,1,1-trichloro-2,2,2-trifluoroethane),

CFC-114 (1-chloro-1,1-difluoro-2-chloro-2,2-difluoroethane),

CFC-115 (chloropentafluoroethane), halon 1211 (bromochlorodifluoromethane), halon 1301 (bromotrifluoromethane), halon 2402 (dibromotetrafluoroethane),

HCFC-22 (chlorodifluoromethane),

HCFC-123 (2,2-dichloro-1,1,1-trifluoroethane),

HCFC-124 (2-chloro-1,1,1,2-tetrafluoroethane),

HCFC-141b (1,1-dichloro-1-fluoroethane), HCFC-142b

(1-chloro-1,1-difluoroethane), 1,1,1-trichloroethane, and carbon tetrachloride.

b. The requirements of 310 CMR 7.25(12)(c)14.a. shall not apply to any ozone depleting compounds that may be present as impurities in a consumer product in an amount equal to or less than 0.01% by weight of the product.

c. The requirements of 310 CMR 7.25(12)(c)14.a. shall not apply to any existing product formulation that complies with the requirements in 310 CMR 7.25(12)(c)1. or any existing product formulation that is reformulated to meet the requirements in 310 CMR 7.25(12)(c)1., provided that ozone depleting compound content of the reformulated product does not change.

(d) <u>Variances</u>.

1. Any person who cannot comply with the requirements set forth in 310 CMR 7.25(12)(c)1., because of extraordinary reasons beyond the person's reasonable control may apply in writing to the Department for a variance. The variance application shall set forth the following:

a. the specific grounds upon which the variance is sought;

b. the proposed dates by which compliance with the provisions of 310 CMR 7.25(12)(c)1. will be achieved;

c. a compliance report detailing the methods by which compliance will be achieved.d. information to support criteria in 310 CMR 7.25(12)(d)3.

2. Upon receipt of a variance application containing the information required in 310 CMR 7.25(12)(d)1., the Department shall hold a public hearing to determine whether, under what conditions, and to what extent, a variance from the requirements in 310 CMR 7.25(12)(c)1. is necessary and will be permitted. A hearing shall be initiated no later than 75 days after receipt of a variance application. Notice of the time and place of the hearing shall be sent to the applicant by certified mail not less than 30 days prior to the hearing. Notice of the hearing shall also be submitted for publication in the Massachusetts Register and sent to every person who requests such notice, not less than 30 days prior to the hearing. The notice shall state that the parties may, but need not be, represented by counsel at the hearing. At least 30 days prior to the hearing, the variance application shall be made available to the public for inspection. Information submitted to the Department by a variance applicant may be claimed as confidential, and such information shall be handled in accordance with the Department's confidentiality procedures. The Department may consider such confidential information in reaching a decision on a variance application. Interested members of the public shall be allowed a reasonable opportunity to testify at the hearing and their testimony shall be considered.

3. No variance shall be granted unless all of the following findings are made:

a. that because of reasons beyond the reasonable control of the applicant, requiring compliance with 310 CMR 7.25(12)(c)1. would result in extraordinary economic hardship;

b. that the public interest in mitigating the extraordinary hardship to the applicant by issuing the variance outweighs the public interest in avoiding any increased emissions of air contaminants which would result from issuing the variance;

c. that the compliance report proposed by the applicant can reasonably be implemented, and will achieve compliance as expeditiously as possible.

4. Any variance order shall specify a final compliance date by which the requirements of 310 CMR 7.25(12)(c)1. will be achieved. Any variance order shall contain a condition that specifies increments of progress necessary to assure timely compliance, and any other conditions that the Department deems necessary.

5. A variance shall cease to be effective upon failure of the party to whom the variance was granted to comply with any term or condition of the variance.

6. Upon the application of any person, the Department may review, and for good cause, modify or revoke a variance from requirements of 310 CMR 7.25(12)(c)1.

7. All variances, or modifications to variances, shall be approved by EPA.

(e) <u>Innovative Products</u>.

1. Any manufacturer of a consumer product which has been granted an Innovative Product exemption by CARB under the Innovative Products provisions in Subchapter 8.5, Article 2, Section 94511, or Subchapter 8.5, Article 1, Section 94503.5 of Title 17 of the California Code of Regulations, and such Innovative Products Exemption has been approved by EPA, shall be, for that product, exempt from the VOC limits in 310 CMR 7.25(12)(c)1.: *Table 2* for the period of time that the CARB Innovative Product exemption remains in effect. Any manufacturer claiming an Innovative Product exemption on this basis must submit to the Department a copy of the CARB Innovative Product exemption decision (*i.e.*, the Executive Order), including all conditions established by CARB applicable to the exemption.

2. Manufacturers of consumer products that have been granted an Innovative Products exemption under the Innovative Products provisions in Subchapter 8.5, Article 2, Section 94511, or Subchapter 8.5, Article 1, Section 94503.5 of Title 17 of the California Code of Regulations based on California specific data, or that have not been granted an exemption by CARB, may seek an Innovative Products exemption in accordance with the following criteria:

a. The Department shall exempt a consumer product from the VOC limits specified in 310 CMR 7.25(12)(c)1. if a manufacturer demonstrates by clear and convincing evidence that, due to some characteristic of the product formulation, design, delivery systems or other factors, the use of the product will result in less VOC emissions as compared to:

i. the VOC emissions from a representative consumer product which complies with the VOC limits specified in 310 CMR 7.25(12)(c)1., or

ii. the calculated VOC emissions from a non-complying representative product, if the product had been reformulated to comply with the VOC limits specified in 310 CMR 7.25(12)(c)1. VOC emissions shall be calculated using the following equation:

 $ER = ENC \times VOCSTD / VOCNC$

where:

ER = the VOC emissions from the non-complying representative product, had it been reformulated

ENC = the VOC emissions from the non-complying representative product in its current formulation

VOCSTD = the VOC limit specified in the table of standards in 310 CMR 7.25(12)(c)1.

VOCNC = the VOC content of the non-complying product in its current formulation

If a manufacturer demonstrates that this equation yields inaccurate results due to some characteristic of the product formulation or other factors, an alternative method that accurately calculates emissions may be used upon approval of the Department.

b. For the purposes 310 MR 7.25(11)(e)2.b., "representative consumer product" means a consumer product that meets all of the following criteria:

i. the representative product shall be subject to the same VOC limit in 310 CMR 7.25(12)(c)1. as the innovative product.

ii. the representative product shall be of the same product form as the innovative product, unless the innovative product uses a new form that does not exist in the product category at the time the application is made.

iii. the representative product shall have at least similar efficacy as other consumer products in the same product category based on tests generally accepted for that product category by the consumer products industry.

c. A manufacturer shall apply in writing to the Department for any exemption claimed under 310 CMR 7.25(12)(e)2.a. The application shall include the supporting documentation that demonstrates the emissions from the innovative product, including the actual physical test methods used to generate the data and, if necessary, the consumer testing undertaken to document product usage. In addition, the applicant shall provide any information necessary to enable the Department to establish enforceable conditions for granting the exemption including the VOC content for the innovative product and test methods for determining the VOC content. All information submitted by a manufacturer pursuant to 310 CMR 7.25(11)(e)2.c. shall be handled in accordance with the procedures specified in applicable Massachusetts confidentiality requirements.

d. Within 30 days of receipt of the exemption application, the Department shall determine whether an application is complete.

e. Within 90 days after an application has been deemed complete, the Department shall determine whether, under what conditions, and to what extent, an exemption from the requirements of 310 CMR 7.25(12)(c) will be permitted. The applicant and the Department may mutually agree to a longer time period for reaching a decision, and additional supporting documentation may be submitted by the applicant before a decision has been reached. The Department shall notify the applicant of the decision in writing and specify such terms and conditions that are necessary to insure that emissions from the product will meet the emissions reductions specified in 310 CMR 7.25(e)2.a.

f. In granting an exemption for a product, the Department shall establish conditions that are enforceable. These conditions shall include the VOC content of the innovative product, dispensing rates, application rates and any other parameters determined by the Department to be necessary. The Department shall also specify the test methods for determining conformance to the conditions established. The test methods shall include criteria for reproducibility, accuracy, sampling and laboratory procedures.

g. For any product for which an exemption has been granted pursuant to this section, the manufacturer shall notify the Department in writing within 30 days of any change in the product formulation or recommended product usage directions, and shall also notify the Department within 30 days if the manufacturer learns of any information which would alter the emissions estimates submitted to the Department in support of the exemption application.

h. If the VOC limits specified in 310 CMR 7.25(12)(c)1. are lowered for a product category through any subsequent rule making, all innovative product exemptions granted for products in the product category, except as provided in 310 CMR 7.25(12)(e)2.h., shall have no force and effect as of the effective date of the modified VOC standard. 310 CMR 7.25(12)(e)2.h. shall not apply to those innovative products which have VOC emissions less than the applicable lowered VOC limit and for which a written notification of the product's emissions status versus the lowered VOC limit has been submitted to and approved by the Department at least 60 days before the effective date of such limits.

i. If the Department determines that a consumer product for which an exemption has been granted no longer meets the criteria for an innovative product specified in 310 CMR 7.25(12)(e)2.a., the Department may modify or revoke the exemption as necessary to assure that the product will meet these criteria.

(f) <u>Labeling Requirements</u>.

1. Product Dating.

a. No person shall sell, supply, offer for sale, or manufacture a consumer product subject to 310 CMR 7.25(12)(c) for use in Massachusetts unless each consumer product container or package clearly displays the day, month, and year on which the product was manufactured, or a code indicating such date.

b. For products manufactured on or after January 1, 2009, the date-code shall be displayed on the product container or package such that it is readily observable without irreversibly disassembling any portion of the product container or packaging. For the purposes of 310 CMR 7.25(11)(f)1.b., information may be displayed on the bottom of a container as long as it is clearly legible without removing any product packaging.

c. No person shall erase, alter, deface or otherwise remove or make illegible any date or code indicating the date of manufacture from any regulated product container without the express authorization of the manufacturer.

d. Explanation of the Code.

i. If a manufacturer uses a code indicating the date of manufacture for any consumer product subject to 310 CMR 7.25(12)(c), an explanation of the code shall be filed with the Department no later than 12 months prior to:

- the effective date of the applicable standard specified in 310 CMR 7.25(12)(c)1; or, the date on which the product first becomes available for sale, distribution, or use within Massachusetts, whichever is later; and

-- any date on which the product first becomes available for sale, distribution, or use within Massachusetts after any modification to an existing product's date-code format.

ii. A manufacturer who uses the following code to indicate the date of manufacture shall not be subject to the requirements of 310 CMR 7.25(12)(f)1.d.i., if the code is represented separately from other codes on the product container so that it is easily recognizable:

YY DDD

where:

YY = two digits representing the year in which the product was manufactured

DDD = three digits representing the day of the year on which the product was manufactured, with "001" representing the first day of the year, "002" representing the second day of the year, and so forth (*i.e.*, the "Julian date").

e. The requirements of 310 CMR 7.25(12)(f)1. shall not apply to products containing no VOCs, as defined in 310 CMR 7.25(12)(b), or containing VOCs at 0.10 percent by weight or less.

f. Codes indicating the date of manufacture are public information and may not be claimed as confidential.

2. Additional Labeling Requirements for Aerosol Adhesives, Adhesive Removers, Electronic Cleaners, Electrical Cleaners, Energized Electrical Cleaners, and Contact Adhesives.

a. In addition to the requirements specified in 310 CMR 7.25(12)(f)1., the manufacturer and responsible party for each aerosol adhesive, adhesive remover, electronic cleaner, electrical cleaner, energized electrical cleaner, and contact adhesive product subject to 310 CMR 7.25 shall ensure that all products clearly display the following information on each product container that is manufactured on or after January 1, 2009:

i. The product category as specified in 310 CMR 7.25(12)(c)1. or an abbreviation of the category shall be displayed;

ii. The applicable VOC standard for the product that is specified in 310 CMR 7.25(12)(c)1, except for energized electrical cleaner, expressed as a percentage by weight, shall be displayed;

iii. If the product is classified as a special purpose spray adhesive, the applicable substrate and/or application or an abbreviation of the substrate or application that qualifies the product as special purpose shall be displayed;

iv. If the manufacturer or responsible party uses an abbreviation as allowed under 310 CMR 7.25(12)(f)2.a.i. and 310 CMR 7.25(12)(f)2.a.iii., an explanation of the abbreviation must be filed with the Department no later than 90 days prior to:

- the effective date of the applicable standard specified in 310 CMR 7.25(12)(c)1.; or, the date on which the product first becomes available for sale, distribution, or use within Massachusetts, whichever date is later; and -- any date on which the product first becomes available for sale, distribution, or use within Massachusetts after any modification to an existing product's abbreviation.

b. The information required in 310 CMR 7.25(12)(f)3.a., shall be displayed on the product container such that it is readily observable without removing or disassembling any portion of the product container or packaging. For the purposes of this subsection, information may be displayed on the bottom of a container as long as it is clearly legible without removing any product packaging.

c. No person shall remove, alter, conceal, or deface the information required in 310 CMR 7.25(12)(f)2.a. prior to final sale of the product.

(g) <u>Recordkeeping and Reporting Requirements</u>.

1. Each responsible party for a product subject to a VOC content limit in 310 CMR 7.25(12)(c) shall keep records demonstrating compliance with the VOC content limits in accordance with 310 CMR 7.25(12)(h). If the Department requests such information and the responsible party does not have or does not provide the information requested by the Department, the Department may require the reporting of this information by the person that has the information, including, but not limited to, any formulator, manufacturer, supplier, parent company, private labeler, distributor, or repackager. All records for compliance determination, including 310 CMR 7.25(12)(g)2. and 310 CMR 7.25(12)(g)3., shall be kept on site for a period of time not less than three years and shall be made available to the Department within 90 days of request.

2. Upon a written request by the Department, a responsible official from each responsible party shall provide, to the Department within 90 days, the information for any consumer product or products that the Department may specify including, but not limited to, all or part of the following information:

a. the company name, telephone number, and designated contact person;

b. any claim of confidentiality made pursuant to applicable Massachusetts confidentiality requirements, 310 CMR 3.00;

c. the product brand name for each consumer product subject to recordkeeping and reporting requirements and the product label;

d. the product category to which the consumer product belongs;

e. the applicable product form(s) listed separately;

f. an identification of each product brand name and form as a Household Product or Industrial and Institutional Product, or both;

g. for reporting information submitted by multiple companies, an identification of each company that is submitting relevant data separate from that submitted by the responsible party.

h. for each product brand name and form, the net percent by weight of the total product, less container and packaging, comprised of the following, rounded to the nearest 0.1%:

i. Total Exempt Compounds

- i. Total LVP-VOCs that are not fragrances
- iii. Total All Other Carbon-Containing Compounds that are not fragrances
- iv. Total All Non-Carbon-Containing Compounds
- v. Total Fragrance
- vi. For products containing greater than two percent by weight fragrance:
 - the percent of fragrance that are LVP-VOCs, and

-- the percent of fragrance that are All Other Carbon-Containing Compounds

vii. Total Paradichlorobenzene

i. for each product brand name and form, the identity, including the specific chemical name and associated Chemical Abstract Services (CAS) number, of the following:

i. Each Exempt Compound

ii. Each LVP-VOC that is not a fragrance

j. if applicable, the weight percent comprised of propellant for each product;

k. If applicable, an identification of the type of propellant (Type A, Type B, Type C, or a blend of the different types);

1. If applicable, the net percent by weight of each ozone-depleting compound that is listed in 310 CMR 7.25(12)(c)14. and is contained in a product subject to reporting under 310 CMR 7.25(12)(g) in any amount greater than 0.1% by weight.

- (h) <u>Compliance Testing Requirements</u>.
 - 1. The responsible party shall determine compliance with the VOC content requirements of this regulation according to one of the following:

a. CARB Method 310 Determination of Volatile Organic Compounds (VOC) in *Consumer Products and Reactive Organic Compounds in Aerosol Coating Products*, adopted September 25, 1997, and as last amended on May 5, 2005;

b. An alternative test method to CARB Method specified in 310 CMR 7.25(12)(h)1.a. that is shown to accurately determine the concentration of VOCs in a subject product, or its emissions, if the applicant has received an approval from CARB for the alternative test method for determining the VOC content of the subject product and the applicant submits to the Department a copy of the CARB Executive Order, including all applicable conditions and limitations;

c. VOC content determination using product formulation and records.

i. Testing to determine compliance with the requirements of 310 CMR 7.25 may be demonstrated through calculation of the VOC content from records of the amounts of constituents used to make the product pursuant to the following equation:

VOC Content = $(B-C) \times 100 / A$

where,

A = total net weight of unit (excluding container and packaging)

B = total weight of all VOCs, as defined in 310 CMR 7.25(12)(b), per unit

C = total weight of VOCs exempted under 310 CMR 7.25(12)(c)4., per unit

ii. If product records demonstrate compliance with the VOC limits, but these records are contradicted by product testing performed using CARB Method 310, the results of CARB Method 310 shall take precedence over the product records and may be used to establish a violation of the requirements of 310 CMR 7.25. iii. Compliance determinations based on product formulation records may not be used unless the manufacturer of a consumer product keeps accurate records for each day of production of the amount and chemical composition of the individual product constituents. These records shall be kept for at least three years.

2. Testing to determine whether a product is a liquid or solid shall be performed using ASTM D4359-90(2000)e1, *Standard Test Method for Determining Whether a Material Is a Liquid or a Solid*, ASTM International.

3. Testing to determine compliance with the certification requirements for charcoal lighter material shall be performed using the procedures specified in the South Coast Air Quality Management District Rule 1174 Ignition Method Compliance Certification Protocol (Table 1, Section 200.9)(February 28, 1991).

4. Testing to determine distillation points of petroleum distillate-based charcoal lighter materials shall be performed using ASTM D86-04b, *Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure*, ASTM International.

5. Testing to determine plasticizer in flexible vinyl adhesive shall be performed using ASTM D1045-95(2001), *Standard Test Methods for Sampling and Testing Plasticizers Used in Plastics*, ASTM International.

6. Records shall accurately reflect the constituents used to manufacture a product, the chemical composition of the individual product, and any other test, processes, or records used in connection with product manufacture.

(i) Alternative Control Plans.

1. The VOC content limits specified in 310 CMR 7.25(12)(c)1.: Table 2. shall not apply to any manufacturer for any consumer product that is subject to an ACP for the period of time that the ACP remains in effect provided that the manufacturer complies with all conditions and requirements of the ACP Executive Order.

2. Any manufacturer who claims an exemption pursuant to 310 CMR 7.25(12)(i)1. shall submit to the Department a copy of the ACP Executive Order within 30 days of receiving the ACP Executive Order from CARB

3. Any manufacturer who claims an exemption pursuant to 310 CMR 7.25(12)(i)1. shall notify the Department within 30 days of any violation of the ACP as determined by CARB pursuant to California Code of Regulations, Title 17, Subchapter 8.5, Article 4, Section 94546.

7.26: Industry Performance Standards

$((1) - (9) \underline{RESERVED})$

(10) Perchloroethylene Air Emissions Standards for Dry Cleaning Facilities - Applicability.
 (a) Except as provided in 310 CMR 7.26(12)(a) and (b), each dry cleaning facility shall comply with the provisions of 310 CMR 7.26(10) through (16) beginning on May 2, 1997 or immediately upon startup, whichever is later. All coin-operated dry cleaning machines are exempt from the requirements of 310 CMR 7.26(10) through (16).

(b) The provisions of 310 CMR 7.26(10) through (16) apply to the owner or operator of a dry cleaning facility that has:

1. Only dry-to-dry machine(s) and has perchloroethylene consumption equal to or less than 2,100 gallons per 12-month rolling period as determined in accordance with 310 CMR 7.26(10)(c); or

2. Only a transfer machine system(s) or both dry-to-dry machine(s) and transfer machine system(s) and has perchloroethylene consumption equal to or less than 1,800 gallons per 12-month rolling period as determined in accordance with 310 CMR 7.26(10)(c).

(c) When calculating the perchloroethylene consumption for each 12-month rolling period for the purpose of determining applicability under 310 CMR 7.26(10)(a), the owner or operator shall sum on the first day of every month the volume of all perchloroethylene purchases made in each of the previous 12 months, as recorded in the log described in 310 CMR 7.26(15)(d)1.

(d) Notwithstanding the forgoing, 310 CMR 7.26 does not apply to dry-to-dry perchloroethylene dry cleaning facilities co-located with a residence, installed between December 21, 2005 through July 13, 2006. *N.B.* These dry-to-dry facilities are subject to the federal Maximum Available Control Technology (MACT) standards for perchloroethylene dry cleaning facilities (40 CFR Part 63, Subpart M).

(11) <u>Definitions</u>. The definitions found in 310 CMR 7.00 apply to 310 CMR 7.26(10) through (16). The following words and phrases shall have the following meanings as they appear in 310 CMR 7.26(10) through (16). Where a term is defined in the 310 CMR 7.00: *Definitions* and the definition also appears in 310 CMR 7.26(11), the definition in 310 CMR 7.26(11) controls for 7.26(10) through (16).

<u>Ancillary Equipment</u> means the equipment used with a dry cleaning machine in a dry cleaning system including, but not limited to, emission control devices, pumps, filters, muck cookers, stills, solvent tanks, solvent containers, water separators, exhaust dampers, diverter valves, interconnecting piping, hoses, and ducts.

<u>Articles</u> mean clothing, garments, textiles, fabrics, leather goods, and the like, that are drycleaned.

<u>Carbon Adsorber</u> means a bed of activated carbon into which an air-perchloroethylene gas-vapor stream is routed and which adsorbs the perchloroethylene on the carbon.

<u>Co-located</u> means a dry cleaning facility located in a building with a residence, a licensed day care center, a health care facility, a prison, an elementary school, a middle or high school, a children's pre-school, a senior center or a youth center.

<u>Coin-operated Dry Cleaning Machine</u> means a dry cleaning machine that is operated by the customer (that is, the customer places articles into the machine, turns the machine on, and removes articles from the machine).

<u>Colorimetric Detector Tube</u> means a glass tube (sealed prior to use), containing material impregnated with a chemical that is sensitive to perchloroethylene and is designed to measure the concentration of perchloroethylene in air.

<u>Construction</u> means the fabrication (onsite), erection, or installation of a dry cleaning system subject to 310 CMR 7.26(10) through (16).

<u>Desorption</u> means regeneration of a carbon adsorber by removal of the perchloroethylene adsorbed on the carbon.

<u>Diverter Valve</u> means a flow control device that prevents room air from passing through a refrigerated condenser when the door of the dry cleaning machine is open.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

7.26: continued

Dry Cleaning means the process of cleaning articles using perchloroethylene.

<u>Dry Cleaning Cycle</u> means the washing and drying of articles in a dry-to-dry machine or transfer machine system.

Dry Cleaning Facility means an establishment with one or more dry cleaning systems.

<u>Dry Cleaning Machine</u> means a dry-to-dry machine or each machine of a transfer machine system.

<u>Dry Cleaning Machine Drum</u> means the perforated container inside the dry cleaning machine that holds the articles during dry cleaning.

<u>Dry Cleaning System</u> means a dry-to-dry machine and its ancillary equipment or a transfer machine system and its ancillary equipment.

<u>Dryer</u> means a machine used to remove perchloroethylene from articles by tumbling them in a heated air stream (see reclaimer).

<u>Dry-to-dry Machine</u> means a one-machine dry cleaning operation in which washing and drying are performed in the same machine.

Exhaust Damper means a flow control device that prevents the air-perchloroethylene gas-vapor stream from exiting the dry cleaning machine into a carbon adsorber before room air is drawn into the dry cleaning machine.

<u>Filter</u> means a porous device through which perchloroethylene is passed to remove contaminants in suspension. Examples include, but are not limited to, lint filter, button trap, cartridge filter, tubular filter, regenerative filter, prefilter, polishing filter, and spin disc filter.

<u>Halogenated Hydrocarbon Detector</u> means a portable device capable of detecting vapor concentrations of perchloroethylene of 25 parts per million by volume and indicating a concentration of 25 parts per million by volume or greater by emitting an audible or visual signal that varies as the concentration changes.

<u>Heating Coil</u> means the device used to heat the air stream circulated from the dry cleaning machine drum, after perchloroethylene has been condensed from the air stream and before the stream reenters the dry cleaning machine drum.

<u>Muck Cooker</u> means a device for heating perchloroethylene-laden waste material to volatilize and recover perchloroethylene.

<u>PCE (Perchloroethylene)-gas Analyzer</u> means a flame ionization detector, photoionization detector, or infrared analyzer capable of detecting vapor concentrations of perchloroethylene of 25 parts per million by volume.

<u>Perceptible Leaks</u> mean any perchloroethylene vapor or liquid leaks that are obvious from:

- (a) the odor of perchloroethylene;
- (b) visual observation, such as pools or droplets of liquid; or
- (c) the detection of gas flow by passing the fingers over the surface of equipment.

<u>Perchloroethylene Consumption</u> means the total volume of perchloroethylene purchased based upon purchase receipts or other reliable measures.

<u>Reclaimer</u> means a machine used to remove perchloroethylene from articles by tumbling them in a heated air stream (see dryer).

<u>Reconstruction</u> means replacement of a washer, dryer, or reclaimer; or replacement of any components of a dry cleaning system to such an extent that the fixed capital cost of the new components exceeds 50% of the fixed capital cost that would be required to construct a comparable new source.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

7.26: continued

<u>Refrigerated Condenser</u> means a vapor recovery system into which an air-perchloroethylene gasvapor stream is routed and the perchloroethylene is condensed by cooling the gas-vapor stream.

<u>Refrigerated Condenser Coil</u> means the coil containing the chilled liquid used to cool and condense the perchloroethylene.

<u>Residence</u> means any dwelling or housing in which people reside excluding short-term housing that is occupied by the same person for a period of less than 180 days (such as a hotel room).

<u>Secondary Carbon Adsorber</u> means a carbon adsorber into which the air-perchloroethylene gas vapor stream from inside the dry cleaning machine drum is routed immediately before the door of the dry cleaning machine is opened.

Source means each dry cleaning system.

<u>Still</u> means any device used to volatilize and recover perchloroethylene from contaminated perchloroethylene.

Temperature Sensor means a thermometer or thermocouple used to measure temperature.

<u>Transfer Machine System</u> means a multiple-machine dry cleaning operation in which washing and drying are performed in different machines. Examples include, but are not limited to:

- (a) a washer and dryer(s);
- (b) a washer and reclaimer(s); or
- (c) a dry-to-dry machine and reclaimer(s).

<u>Vapor Leak</u> means a perchloroethylene vapor concentration exceeding 25 parts per million by volume (50 parts per million by volume as methane) as indicated by a halogenated hydrocarbon detector or PCE gas analyzer.

<u>Washer</u> means a machine used to clean articles by immersing them in perchloroethylene. This includes a dry-to-dry machine when used with a reclaimer.

<u>Water Separator</u> means any device used to recover perchloroethylene from a waterperchloroethylene mixture.

Year or Yearly means any consecutive 12-month period of time.

- (12) Perchloroethylene Dry Cleaning Systems.
 - (a) <u>Dry-to-dry Machine</u>. An owner or operator of a dry-to-dry machine shall comply with the following requirements:
 - 1. A dry-to-dry machine installed prior to December 9, 1991, shall be equipped with either a carbon adsorber or refrigerated condenser by September 22, 1993.

2. A dry-to-dry machine installed on or after December 9, 1991, shall be equipped with a refrigerated condenser.

3. A dry-to-dry machine installed on or after December 21, 2005 shall be equipped with a refrigerated condenser and a secondary carbon adsorber on or before November 5, 2008.

4. The installation of a co-located dry-to-dry machine, except those co-located with a residence is prohibited as of November 5, 2008.

5. The installation of a dry-to-dry machine(s) co-located with a residence is prohibited as of September 5, 2008.

6. All co-located dry-to-dry machines shall cease operation on or before December 21, 2020.

7. All dry-to-dry machines co-located with a residence installed after July 13, 2006 shall cease operation on September 5, 2008.¹

Under the federal MACT, dry cleaners co-located with a residence were prohibited from operating as of July 13, 2006. On September 5, 2008, 310 CMR 7.26(10) through (16) also become a state requirement.

8. The operation, maintenance, testing, monitoring, recordkeeping and reporting requirements of 310 CMR 7.26(13) through (15), as applicable.

(b) <u>Transfer Machine System</u>. The installation of transfer machine(s) is prohibited as of May 2, 1997. On or before September 22, 1993, all transfer machine systems shall be equipped with a carbon adsorber or a refrigerated condenser.

1. The owner or operator of a transfer machine system equipped with a refrigerated condenser shall:

a. Not vent the air-perchloroethylene gas-vapor contained within the washer to the atmosphere until the washer door is opened;

b. Monitor in accordance with 310 CMR 7.26(12)(b)2.;

c. Not use the same refrigerated condenser coil for the washer that is used by a dryto- dry machine, dryer, or reclaimer; and

d. Ensure the temperature difference between the air-perchloroethylene gas-vapor stream entering the refrigerated condenser on a washer and the air-perchloroethylene gas-vapor stream exiting the refrigerated condenser on the washer is greater than or equal to 20° F (11.1°C).

2. The owner or operator shall calculate, on a weekly basis, the difference between the temperature of the air-perchloroethylene gas-vapor streams entering and exiting the refrigerated condenser on a washer and the temperature of the air-perchloroethylene gas-vapor stream. The owner or operator shall measure the inlet and outlet streams with a temperature sensor. Each temperature sensor shall be used according to the manufacturer's instructions, and designed to measure at least a temperature range from $32^{\circ}F(0^{\circ}C)$ to $120^{\circ}F(48.9^{\circ}C)$ to an accuracy of $\pm 2^{\circ}F(\pm 1.1^{\circ}C)$.

3. The owner or operator shall comply with the operation, maintenance, testing, monitoring, recordkeeping and reporting requirements of 310 CMR 7.26(13) through (15), as applicable

4. The owner or operator shall cease operation of their transfer machines on or before September 5, 2008.

(13) Operation and Maintenance Requirements.

(a) The owner or operator shall close the door of each dry cleaning machine immediately after transferring articles to or from the machine, and shall keep the door closed at all other times except to the extent necessary during maintenance operations.

(b) The owner or operator of each dry cleaning system shall operate and maintain the system according to the manufacturers' specifications and recommendations.

(c) The owner or operator of a dry cleaning system equipped with a refrigerated condenser shall:

1. Not vent or release the air-perchloroethylene gas-vapor stream contained within the dry cleaning machine to the atmosphere while the dry cleaning machine drum is rotating;

2. Monitor the refrigerated condenser in accordance with 310 CMR 7.26(14)(a);

3. Operate the dry cleaning system with a diverter valve or equivalent design so as to prevent air drawn into the dry cleaning machine when the door of the machine is open from passing through the refrigerated condenser; and

4. Maintain the temperature of the air-perchloroethylene gas-vapor stream at the end of the cool down cycle on the outlet side of the refrigerated condenser on a dry-to-dry machine, dryer, or reclaimer at equal to or less than $45^{\circ}F$ (7.2°C).

(d) The owner or operator of a dry cleaning system equipped with a primary or secondary carbon adsorber shall:

1. Not bypass the carbon adsorber or secondary carbon adsorber to vent or release any air-perchloroethylene gas-vapor stream to the atmosphere at any time; and

2. Monitor the carbon adsorber in accordance with the requirements in 310 CMR 7.26(14)(b) as applicable.

(e) If parameter values monitored under 310 CMR 7.26(13)(c) or (d), do not meet the values specified in 310 CMR 7.26(14)(a), or (b), the owner or operator shall make adjustments or repairs to the dry cleaning system or control device to meet those values. If repair parts must be ordered, either a written or verbal order for such parts shall be initiated within two working days of detecting such a parameter value. Such repair parts shall be installed as soon as possible, but in no case later than, five working days after receipt of the parts.

(f) The owner or operator of a dry cleaning system shall drain all cartridge filters in their housing, or other sealed container, for a minimum of 24 hours, or shall treat such filters in an equivalent manner, before removal from the dry cleaning facility.

(g) The owner or operator of a dry cleaning system shall store all perchloroethylene and wastes that contain perchloroethylene in solvent tanks or solvent containers with no perceptible leaks.

(h) The owner or operator of a dry cleaning system shall inspect the following components weekly for perceptible leaks while the dry cleaning system is operating:

- 1. Hose and pipe connections, fittings, couplings, and valves;
- 2. Door gaskets and seatings;
- 3. Filter gaskets and seatings;
- 4. Pumps;
- 5. Solvent tanks and containers;
- 6. Water separators;
- 7. Muck cookers;
- 8. Stills;
- 9. Exhaust dampers;
- 10. Diverter valves (if required); and
- 11. All filter housings.

(i) The owner or operator of a dry cleaning system shall inspect the components identified in 310 CMR 7.26(13)(h), at least weekly for vapor leaks. The operator shall place the probe inlet near the surface of each component interface where leakage could occur and move it slowly along the interface periphery. One of the following methods or devices, operated in accordance with the manufacturer's instructions shall be used:

- 1. a halogenated-hydrocarbon detector;
- 2. a PCE gas analyzer; or

3. an alternative method approved by the Department. Sufficient documentation shall be provided to the Department to demonstrate that the alternative method is capable of detecting vapor concentrations of PCE of 25 ppm by volume.

(j) The owner or operator of a dry cleaning system shall repair all leaks detected under 310 CMR 7.26(13)(h) and (i) within 24 hours. If repair parts must be ordered, either a written or verbal order for those parts shall be initiated within two working days of detecting such a leak. Such repair parts shall be installed as soon as possible but in no case later than five working days after receipt of the parts.

(k) Each owner or operator of a dry cleaning facility shall retain onsite a copy of the design specifications and the operating manuals for each dry cleaning system and each emission control device located at the dry cleaning facility.

(14) <u>Test Methods and Monitoring</u>.

(a) The owner or operator of a dry cleaning system equipped with a refrigerated condenser shall either:

1. Monitor, on a weekly basis, the refrigeration system high pressure and low pressure during the drying phase to determine if they are in the range specified in the manufacturers operating instructions; or

2. Measure the temperature of the air-perchloroethylene gas-vapor stream on the outlet side of the refrigerated condenser on a dry-to-dry machine, dryer, or reclaimer weekly with a temperature sensor to determine if it is equal to or less than 45°F (7.2°C). The temperature sensor shall be used according to the manufacturer's instructions and shall be designed to measure a temperature of 45°F (7.2°C) to an accuracy of ± 2 °F (± 1.1 °C).

(b) The owner or operator of a dry cleaning system equipped with a primary carbon adsorber shall measure, on a weekly basis, the concentration of perchloroethylene in the exhaust of the carbon adsorber to determine that the perchloroethylene concentration in the exhaust is equal to or less than 100 parts per million by volume. The measurement shall be taken while the dry cleaning machine is venting to the carbon adsorber at the end of the last dry cleaning cycle prior to desorption of the carbon adsorber. The owner or operator shall:

1. Use a colorimetric detector tube designed to measure a concentration of 100 parts per million by volume of perchloroethylene in air to an accuracy of \pm 25 parts per million by volume; and

2. Use the colorimetric detector tube according to the manufacturer's instructions; and 3. Provide a sampling port for monitoring within the exhaust outlet of the carbon adsorber that is easily accessible and located at least eight stack or duct diameters downstream from any flow disturbance such as a bend, expansion, contraction, or outlet; downstream from no other inlet; and two stack or duct diameters upstream from any flow disturbance such as a bend, expansion, inlet, or outlet.

(c) The owner or operator of a dry cleaning system equipped with a secondary carbon adsorber shall operate and maintain the system in accordance with the manufacturers specifications.

(15) <u>Recordkeeping and Reporting Requirements</u>.

(a) Each owner or operator of a dry cleaning facility shall submit to the Department a compliance certification in accordance with 310 CMR 70.00.

(b) <u>Compliance Notification</u>. Each owner or operator of a dry cleaning facility shall notify the Department, on forms provided by the Department, on or before September 15, 2008, either electronically utilizing the electronic form via eDEP or by submitting a paper form by registered mail, and subsequently as required by 310 CMR 70.03, of the facility's compliance with the requirements contained in 310 CMR 7.26(10) through(16) and provide the following information:

1. The name and address of the owner or operator;

- 2. The name and address (that is, physical location) of the dry cleaning facility;
- 3. The type of each dry cleaning machine(s) and its serial number;
- 4. The installation date of each dry cleaning machine;

5. A description of the type of air pollution control device(s) used to comply with 310 CMR 7.26(12)(a) or (b) as applicable;

6. The most recent 12-month perchloroethylene quantity purchased, based on invoices or receipts;

7. Whether or not the dry cleaning facility is located in a building with a residence;

8. Whether or not the dry cleaning facility is located in a building with a leased space, another tenant, or owner occupant(s);

9. Whether or not the dry cleaning facility is co-located with sensitive populations such as a licensed day care centers, a health care facility, a prison, an elementary school, middle school or high school, a children's pre-school, a senior center or a youth center.

10. The compliance status of the facility; and

11. That all information submitted is in accordance with 310 CMR 7.01(2)(a) through (c).

(c) <u>Change in Status Notification</u>. Each owner or operator of a dry cleaning facility shall notify the Department, on forms provided by the Department, when there is a change in ownership, a cessation of dry cleaning operations, or a change to a non-perchloroethylene solvent, and provide the following information where applicable.

1. <u>Change in Ownership</u>. The specific date for transfer of responsibility, coverage, and liability between the current and new owner and operator. The new owner shall notify within 60 days of the sale of the operation.

2. <u>Cessation of Operation</u>. The specific date that operation of the dry cleaning system(s) ceased at the facility within 60 days of ceasing operation. This notification is also necessary when the facility changes to a "drop off" facility.

3. <u>Cessation of Perchloroethylene as the Dry Cleaning Solvent</u>. The specific date that perchloroethylene was no longer used as the dry cleaning solvent, the manufacturer of and type of cleaning solvent within 60 days of the change.

(d) Recordkeeping. Each owner or operator of a dry cleaning facility shall keep receipts of perchloroethylene purchases and a log of the following information, as applicable, and maintain such information up to date so the 12-month rolling period compliance can be determined, and on site for at least one year, and show it upon request for a period of at least three years:

1. The volume of perchloroethylene purchased each month for the dry cleaning facility as recorded from perchloroethylene invoices or receipts of purchases; if no perchloroethylene is purchased during a given month then the owner or operator would enter zero gallons into the log;

The calculation and result of the 12-month rolling period perchloroethylene 2. consumption determined on the first day of each month as specified in 310 CMR 7.26(10)(c);

The dates when the dry cleaning system components were inspected for leaks, as 3. specified in 310 CMR 7.26(13)(h) and (i), and the name or location of dry cleaning system components where leaks were detected;

4. The dates of repair and records of written or verbal orders for repair parts to demonstrate compliance with 310 CMR 7.26(13)(e) or (j);

5. The date and refrigeration system pressures or temperature sensor monitoring results, as specified in 310 CMR 7.26(14) if a refrigerated condenser is used to comply with 310 CMR 7.26(12)(a) or (b); and

The date and colorimetric detector tube monitoring results, as specified in 6 310CMR7.26(14), if a carbon adsorber is used to comply with 310 CMR 7.26(12)(a) or (b).

(16) Determination of Equivalent Emission Control Technology.

(a) Any person requesting that the use of certain equipment or procedures be considered equivalent to the requirements under 310 CMR 7.26(12) and (13) shall collect, verify, and submit to the Administrator the following information to show that the alternative achieves equivalent emission reductions:

1. Diagrams, as appropriate, illustrating the emission control technology, its operation and integration into or function with dry-to-dry machine(s) or transfer machine system(s) and their ancillary equipment during each portion of the normal dry cleaning cycle;

2. Information quantifying vented perchloroethylene emissions from the dry-to-dry machine(s) or transfer machine system(s) during each portion of the dry cleaning cycle with and without the use of the candidate emission control technology;

3. Information on solvent mileage achieved with and without the candidate emission control technology. Solvent mileage is the average weight of articles cleaned per volume of perchloroethylene used. Solvent mileage data must be of continuous duration for at least one year under the conditions of a typical dry cleaning operation. This information on solvent mileage must be accompanied by information on the design, configuration, operation, and maintenance of the specific dry cleaning system from which the solvent mileage information was obtained;

4. Identification of maintenance requirements and parameters to monitor to ensure proper operation and maintenance of the candidate emission control technology;

5. Explanation of why this information is considered accurate and representative of both the short-term and the long-term performance of the candidate emission control technology on the specific dry cleaning system examined;

6. Explanation of why this information can or cannot be extrapolated to dry cleaning systems other than the specific system(s) examined; and

7. Information on the cross-media impacts (to water and solid waste) of the candidate emission control technology and demonstration that the cross-media impacts are less than or equal to the cross-media impacts of a refrigerated condenser.

Prior to operation of the dry cleaning system, an owner or operator shall receive (b)approval of an equivalency determination of their emission control equipment from the Administrator and shall notify the Department of the Administrator's determination.

(20) Environmental Results Program: Lithographic, Gravure, Letterpress, Flexographic and Screen Printing.

(a) 310 CMR 7.26(20) through (29) sets forth performance standards and recordkeeping requirements for lithographic, gravure, letterpress, flexographic and screen printing at facilities subject to 310 CMR 7.26(20) through (29) pursuant to 310 CMR 7.26(21).

(b) (Reserved)

(c) By complying with the recordkeeping requirements contained in 310 CMR 7.26(20) through (29), and with the certification requirements contained in 310 CMR 70.00: *Environmental Results Program Certification*, and by maintaining actual emissions below the levels contained in 310 CMR 7.26(20)(c)1. through 4., the owner/operator of a facility subject to 310 CMR 7.26(20) through (29) restricts the federal potential emissions of the facility to below the applicable major source thresholds. For every rolling 12-month period as defined in 310 CMR 7.26(22), the potential and actual emissions of the facility shall be less than the following limitations:

- 1. 50 tons of VOC or NO_x , or 100 tons of any other regulated air pollutant;
- 2. 10 tons of any HAP;
- 3. 25 tons of a combination of HAPs; and
- 4. Any lesser threshold for a single HAP that the EPA may establish by rule.

(21) <u>Applicability</u>.

(a) The provisions of 310 CMR 7.26(20) through (29) apply to the owner or operator of each facility in 310 CMR 7.26(20) with:

1. a primary 2012 North American Industry Classification System (NAICS) code of 323111 "Commercial Printing (except Screen and Books", 323113 "Commercial Screen Printing", or 323117 "Books Printing"); and

2. one or more screen, lithographic, gravure, flexographic, or letterpress printing presses.

(b) The provisions of 310 CMR 7.26(20) through (29) do not apply to the owner or operator of a facility that performs lithographic, gravure, flexographic, letterpress, or screen printing with a primary 2012 NAICS code different from those listed in 310 CMR 7.26(21)(a).

(22) <u>Definitions</u>: The definitions found in 310 CMR 7.00 apply to 310 CMR 7.26(20) through (29). The following words and phrases shall have the following meanings as they appear in 310 CMR 7.26(20) through (29). Where a term is defined in the 310 CMR 7.00 and the definition also appears in 310 CMR 7.26(22), the definition found in 310 CMR 7.26(22) controls.

Adhesive means any substance that is used to bond one surface to another surface.

<u>Alcohol</u> means any of the following compounds, when used as a fountain solution additive for offset lithographic printing: ethanol, n-propanol, and isopropanol.

<u>Alcohol Substitute</u> means non-alcohol fountain solution additives including, but not limited to, glycol ethers or ethylene glycol.

<u>Conforming Operation</u> means a press or presses that meet the standards established in 310 CMR 7.26(24)(d), (25)(a) or (26)(a).

<u>Conductive Ink</u> means an ink which transmits electricity and is used in the production of electronic circuits.

<u>Electron Beam Inks</u> means inks which dry by a polymerization reaction induced by electrons from an electron beam generator.

Extreme Performance Ink or Extreme Performance Coating means an ink or coating used in screen printing on a non-porous substrate that is designed to resist or withstand any of the following: more than two years of outdoor exposure or exposure to industrial-grade chemicals, solvents, acids, or detergents, oil products, cosmetics, temperatures exceeding 76°C (170°F), vacuum forming, embossing or molding.

<u>Flexographic Printing</u> means a printing system utilizing a flexible rubber or elastomeric image carrier in which the image area is raised relative to the non-image area. The image is transferred to the substrate through first applying ink to a smooth roller which in turn rolls the ink onto the raised pattern of a rubber or elastomeric pad fastened around a second roller, which then rolls the ink onto the substrate.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

7.26: continued

<u>Gravure Printing</u> means an intaglio printing operation in which the ink is transferred from wells on a plate to the substrate by pressure, with excess ink removed from the surface of the plate, which is supported by an impression roller, by a doctor blade.

<u>HAP</u> means an air contaminant listed by EPA as a HAP, pursuant to 42 U.S.C. 7401, § 112. That list is incorporated by reference herein, together with all amendments and supplements thereto.

Heatset Inks means inks used to set or fix the ink pigment and binding resins to the substrate.

<u>Heatset Press</u> means an offset lithographic printing press, where the solvent component of the ink is driven off with the use of heat from dryers or ovens. Thermography is not included in this definition.

<u>Incidental Material(s)</u> means one or more VOC containing material(s) which do not, in total, exceed 55 gallons per rolling 12 month period, and which do not comply with an applicable standard set forth in 310 CMR 7.26(20) through (29).

Large Printer means a printer that:

(a) uses a total of more than 3,000 gallons of cleanup solution and inks/coatings/adhesives with a VOC content greater than 10% by weight as applied, per rolling 12 month period; or
(b) after March 9, 2020, emits more than ten tons of VOC facility-wide per rolling 12 month period based on materials used before the application of air pollution control equipment.

Incidental material, ink used in non-heatset offset lithographic printing, water-based ink/coating/adhesive, plastisol, electron beam ink and ultraviolet ink are excluded from this calculation.

<u>Letterpress Printing</u> means a method where the image area is raised relative to the non-image area and the ink is transferred to the substrate directly from the image surface.

<u>Metallic Ink</u> means an ink that contains greater than 50 grams of metal per liter (0.4 lb/gal) of ink.

Midsize Printer means a printer that:

(a) uses a total of more than 275 and no more than 3000 gallons of cleanup solution and inks/coatings/adhesives with a VOC content greater than 10% by weight as applied, per rolling 12 month period; or

(b) uses a total of more than 55 gallons of alcohol per rolling 12 month period and a total of no more than 3000 gallons of cleanup solution, and inks/coatings/adhesives with a VOC content greater than 10% by weight as applied, per rolling 12 month period; or

(c) after March 9, 2020, does not meet the definition of a large printer and emits, before any application of add-on air pollution capture and control equipment, equal to or greater than 15 pounds of VOC per day or, in the alternative, equal to or greater than three tons of VOC per rolling 12 month period from offset lithographic printing operations and related cleaning operations, or letterpress printing operations and related cleaning operations.

Incidental material, ink used in non-heatset offset lithographic printing, water-based ink/coating/adhesive, plastisol, electron beam ink, and ultraviolet ink are excluded from this calculation.

<u>Non-conforming Operation</u> means a press or presses that use(s) ink, coating, or adhesive which do not meet the standards established in 310 CMR 7.26(24)(d), 310 CMR 7.26(25)(a), or 310 CMR 7.26(26)(a) at a printer who has demonstrated that it is technically or economically infeasible to use ink, coating, or adhesive that meets those standards.

<u>Non-heatset Offset Lithographic Printing</u> means offset lithographic printing in which the ink dries by oxidation and absorption into the substrate without the use of heat from dryers or ovens.

<u>Offset Lithographic Printing</u> means a planeographic method in which the image and non-image areas are on the same plane.

<u>Plastisol Ink(s)</u> means a dispersion of finely divided resin in a plasticizer.

<u>Printer</u> means the owner or operator of a facility subject to 310 CMR 7.26(20) through (29) pursuant to 310 CMR 7.26(21).

Rolling 12 Month Period means any consecutive 12 month period of time.

<u>Screen Printing</u> means a process where the printing ink passes through a web or a fabric to which a refined form of stencil has been applied. The stencil openings determine the form and dimensions of the imprint.

SDS means a Safety Data Sheet.

Small Printer means a printer that:

- (a) does not qualify as a <u>Very Small Printer</u>; and
- (b) 1. uses a total of no more than 275 gallons of cleanup solution and inks/coatings/ adhesives with a VOC content greater than 10% by weight as applied per rolling 12 month period; and
 - 2. uses less than or equal to 55 gallons of alcohol per rolling 12 month period.

Incidental material, ink used in non-heatset offset lithographic printing, water-based ink/coating/adhesive, plastisol, electron beam ink and ultraviolet ink are excluded from this calculation.

<u>Solvent</u> means organic compounds which are used as adhesives, diluents, thinners, dissolvers, viscosity reducers, cleaning agents or for other similar uses.

<u>Thermography</u> means a process for simulating a raised printed surface by dusting the wet ink with a resinous material and then fusing it to the ink with heat to produce a raised effect.

<u>Ultraviolet Inks</u> mean inks which dry by a polymerization reaction induced by ultraviolet energy.

Very Small Printer means a printer that:

- (a) is connected to municipal sewer;
- (b) uses a total of no more than 55 gallons of cleanup solution and inks/coatings/adhesives with a VOC content greater than 10% by weight as applied per rolling 12 month period;
- (c) uses no more than 55 gallons of alcohol per rolling 12 month period; and

(d) generates no more than 55 gallons of hazardous waste per rolling 12 month period. Incidental material, ink used in non-heatset offset lithographic printing, water-based ink/coating/adhesive, plastisol, electron beam ink and ultraviolet ink are excluded from the calculation in 310 CMR 7.26: Very Small Printer(b).

<u>Water-based Ink/Coating/Adhesives</u> means an ink, coating, or adhesive with a VOC content less than or equal to 10% by weight as applied.

(23) <u>Rules for Permitted Facilities</u>:

(a) Each printing press shall be operated on or after May 1, 1998 in compliance with the standards and requirements set forth in 310 CMR 7.26(20) through (29) except in the following situations:

1. (Reserved)

2. if a heatset press or non-conforming operation at a facility that, based on materials used before the application of air pollution control equipment, emits no more than ten tons of VOCs facility-wide on a rolling 12 month period, is covered by a plan approval pursuant to 310 CMR 7.02(1) issued prior to May 1, 1998, then the heatset press or non-conforming operation may either be operated in compliance with that plan approval or operated in compliance with the applicable requirements set forth in 310 CMR 7.26(27)(a)1. and 2., except to the extent applicable requirements of 310 CMR 7.18 become more stringent than those in the plan approval or 310 CMR 7.26.

3. if a heatset press or non-conforming operation at a facility that, based on materials used before the application of air pollution control equipment, emits more than ten tons of VOCs facility-wide on a rolling 12 month period, is covered by a plan approval pursuant to 310 CMR 7.02(1) or a permit pursuant to 310 CMR 7.02(9), then that heatset press or non-conforming operation shall be operated in compliance with the terms and conditions of that plan approval or permit, except to the extent applicable requirements of 310 CMR 7.18 or 7.26 become more stringent than those in the plan approval or permit.

4. The following provisions take effect on March 9, 2020: 310 CMR 7.26(24)(a)1.b., 2.a.ii., (25)(b)2.b., (28)(b)5., and (c)6.

(24) <u>Standards for Non-heatset Offset Lithographic Printing</u>:

(a) Fountain solution standards for midsize and large printers: The following standards apply to midsize and large printers, except that they do not apply to the fountain solution in a press with a fountain solution reservoir that holds less than or equal to one gallon. Printers may calculate the percent of alcohol in fountain solution using the methodology set forth in 310 CMR 7.26(24)(a)3.:

- 1. For Web-fed Presses: fountain solution shall:
 - a. not contain any alcohol; and
 - b. contain no more than 5% alcohol substitutes by weight as applied.

2. <u>For Sheet-fed Presses</u>, except for a sheet-fed press with maximum sheet size of 11 by 17 inches or smaller:

- a. unrefrigerated fountain solution shall either:
 - i. contain no more than 5.0% VOC by weight as applied; or

ii. contain no more than 5% alcohol substitutes by weight as applied and contain no alcohol; and

b. refrigerated fountain solution shall contain no more than 8% VOC by weight as applied, and shall be refrigerated to a temperature of less than 60° F.

(b) <u>Fountain Solution Tank Standard</u>: Fountain solution mixing and storage tanks shall be covered, except when adding or removing solution.

(c) <u>Work Practices and Emission Limitations for Printing and Cleaning Operations</u>.

1. Any person subject to 310 CMR 7.26(20) shall comply with the work practices of 310 CMR 7.18(31)(e).

2. Cleanup solution used to clean an offset lithographic printing press shall meet at least one of the following standards, except that these standards do not apply to incidental materials:

a. shall not exceed 70% VOC by weight as applied, calculated pursuant to EPA test method 24; or

b. shall have a VOC composite partial pressure of 10 mmHg or less at 20°C (68°F)
(d) <u>Adhesive standard for midsize and large printers</u>: Adhesives shall meet the following limit for VOC content, expressed in grams VOC per liter of product as applied (pounds per gallon), less water:

Adhesive 300 (2.5)

(25) Gravure, Letterpress, and Flexographic Printing:

(a) <u>Ink, Coating, and Adhesive Standards for Midsize and Large Printers</u>. The following standards apply to midsize and large printers. Inks, coatings, and adhesives, except incidental materials, shall meet the following limits for VOC content, expressed in grams VOC per liter of product as applied (pounds per gallon), less water:

- Ink300 (2.5)Coating300 (2.5)
- Adhesive 150 (1.25)
- (b) Work Practices and Emission Limitations for Printing and Cleaning Operations.

1. Any person subject to 310 CMR 7.26(20) shall comply with the work practices of 310 CMR 7.18(31)(e).

2. Cleanup solution shall meet the following standards, except that these standards do not apply to incidental materials:

a. cleanup solution shall have a VOC composite partial pressure of 25 mm Hg or less at 20 $^\circ C$ (68 $^\circ F); and$

b. cleanup solution used to clean a letterpress printing press at a midsize or large printer, as of the effective date in 310 CMR 7.26(23)(a)4., shall:

i. have a VOC composite partial pressure of less than 10 mm Hg at 20°C (68°F); or

ii. contain less than 70% VOC by weight.

(26) <u>Screen Printing</u>:

(a) <u>Ink, Coating, and Adhesive Standards for Midsize and Large Printers</u>: The following standard applies to midsize and large printers. Inks, coatings, and adhesives, except incidental materials, used in screen printing shall meet the following limits for VOC content, expressed in grams VOC per liter of product as applied (pounds per gallon), less water:

lnk	400 (3.3)
Coating	400 (3.3)
Adhesive	400 (3.3)
Extreme Performance Ink/Coating	800 (6.7)
Metallic Ink	400 (3.3)
Conductive Ink	850 (7.1)

(b) Work Practices and Emission Limitations for Printing and Cleaning Operations.

1. Any person subject to 310 CMR 7.26(20) shall comply with the work practices of 310 CMR 7.18(31)(e).

2. Cleanup solution used in screen printing shall have a VOC composite partial pressure of 5.0 mm Hg or less at 20° C (68° F) except that this standard does not apply to incidental materials.

(27) <u>Printers with Heatset Presses or Non-conforming Operations:</u>

(a) A printer that emits no more than ten tons of actual VOC emissions facility-wide on a rolling 12 month period based on raw material inputs may operate a heatset press(es) or non-conforming operation(s) without a plan approval or permit pursuant to 310 CMR 7.02(1) or 310 CMR 7.02(9), provided that:

1. with respect to the heatset press(es), the printer operates such presses in compliance with cleanup solution standards set forth in 310 CMR 7.26(24)(c), the fountain solution requirement for web-fed lithographic presses set forth in 310 CMR 7.26(24)(a)1., and applicable recordkeeping requirements set forth in 310 CMR 7.26(28). In addition, the printer shall calculate and keep records of actual VOC and HAP emissions per calendar month based on each VOC and each HAP containing compound used at the facility pursuant to 310 CMR 7.26(28)(c)3.

2. with respect to the non-conforming operation(s), the printer operates in compliance with applicable cleanup solution standards set forth in 310 CMR 7.26(25)(b) and 310 CMR 7.26(26)(b), and applicable recordkeeping requirements set forth in 310 CMR 7.26(28). In addition, the printer shall calculate and keep records of actual VOC and HAP emissions per calendar month based on each VOC and each HAP containing compound used at the facility pursuant to 310 CMR 7.26(28)(c)3.

(b) A printer that emits no more than ten tons of actual VOCs facility-wide on a rolling 12 month period based on approved control equipment or other enforceable restrictions contained in a plan approval or permit issued pursuant to 310 CMR 7.02(1) or (9), including but not limited to production and operational restrictions, may install one or more heatset presses or non-conforming operations without obtaining a plan approval or permit pursuant to 310 CMR 7.02(1) or (9) for the new press(es) or operation(s) provided that:

1. installation of the new heatset press(es) or non-conforming operation(s) will not result in more than ten tons per year (TPY) of actual VOC emissions facility-wide on a rolling 12 month period based on:

a. raw material inputs associated with the new press(es) or operation(s); and

b. with respect to existing heatset press(es) or non-conforming operation(s), approved control equipment or other enforceable restrictions, including but not limited to production and operational restrictions; and,

2. with respect to the new press(es) or operation(s), the printer complies with the requirements set forth in 310 CMR 7.26(27)(a)1. and 2.

(c) A printer that emits more than ten tons of actual VOCs facility-wide on a rolling 12 month period based on raw material inputs or enforceable restrictions contained in a plan approval or permit issued pursuant to 310 CMR 7.02(1) or (9), including but not limited to production and operational restrictions, shall, with respect to heatset press(es) or non-conforming operation(s), comply with the terms and conditions of a plan approval or permit issued pursuant to 310 CMR 7.02(1) or (9), except to the extent applicable requirements of 310 CMR 7.18 or 7.26 become more stringent than those in the plan approval or permit.

(d) Notwithstanding 310 CMR 7.26(27)(c), a printer that emits more than ten tons of actual VOCs facility-wide on a rolling 12-month period based on raw material inputs or enforceable restrictions contained in a plan approval or permit issued pursuant to 310 CMR 7.02(1) or (9), including but not limited to production and operational restrictions, need not obtain a plan approval or permit pursuant to 310 CMR 7.02(1) or (9) for existing press(es) or operation(s) provided that:

1. installation of the existing heatset press(es) or non-conforming operation(s) occurred such that the actual VOC emissions facility-wide on a rolling 12 month period based on raw material inputs or enforceable restrictions contained in a plan approval or permit issued pursuant to 310 CMR 7.02(1) or (9) including, but not limited to, production and operational restrictions were less than or equal to ten tons per year; and,

2. such presses or operations comply with the requirements set forth in 310 CMR 7.26(27)(a)1. and 2...

(28) <u>Recordkeeping</u>: Each printer shall maintain records sufficient to demonstrate compliance. Such records shall be kept on-site for at least five years, and shall be made available to representatives of the Department upon request. Such records shall include, but are not limited to, the following:

(a) Each small printer or very small printer shall maintain:

1. monthly purchase or usage records sufficient to demonstrate that the printer is a small printer or very small printer, including but not limited to records concerning cleanup solutions, alcohol, inks, coatings, adhesives and incidental materials, excluding water-based inks/coatings/ adhesives, electron beam inks, ultraviolet inks, plastisol inks, and inks used in non-heatset offset lithographic printing;

2. records demonstrating that cleanup solutions are in compliance with applicable standards set forth in 310 CMR 7.26(20) through (29) according to EPA test method 24 or 24A, as applicable, or an equivalent test methodology as determined by the Department and EPA, and appropriate documentation indicating compliance with the VOC composite partial pressure as defined in 310 CMR 7.00; and,

3. for water-based inks/coatings/adhesives, electron beam inks, ultraviolet inks, and plastisol inks, SDSs or other records demonstrating that the ink/coating/adhesive is water-based, ultraviolet, electron beam, or plastisol as applicable.

(b) Each midsize printer shall maintain:

1. monthly purchase or usage records sufficient to demonstrate that the printer is a midsize printer, including but not limited to records concerning cleanup solutions, inks, coatings, adhesives, electron beam inks, and incidental materials, excluding water-based inks/coatings/adhesives, electron beam inks, ultraviolet inks, plastisol inks, and inks used in non-heatset offset lithographic printing;

2. records demonstrating that cleanup solutions, inks, coatings, and adhesives are in compliance with applicable standards set forth in 310 CMR 7.26(20) through (29) according to EPA test method 24 or 24A, as applicable, or an equivalent test methodology as determined by the Department and EPA, and appropriate documentation indicating compliance with the VOC composite partial pressure as defined in 310 CMR 7.00;

3. records of the percent by weight of VOC in fountain solution as determined each time alcohol or alcohol mix is used to mix a new batch of fountain solution and each time it is added to fountain solution on-press, based on analytical data, and the proportions of the constituents mixed;

4. the daily temperature of fountain solutions required to be refrigerated pursuant to 310 CMR 7.26(24)(a)2.b. when alcohol content is greater than 5% by weight;

5. records of the percent by weight of alcohol substitutes in fountain solution as determined each time alcohol substitutes are used to mix a new batch of fountain solution and each time alcohol substitutes are added to fountain solution on-press, based on analytical data, and the proportions of the constituents mixed;

6. for water-based inks/coatings/adhesives, electron beam inks, ultraviolet inks, and plastisol inks, SDSs or other records demonstrating that the ink/coating/adhesive is water-based, electron beam, ultraviolet, or plastisol as applicable; and,

7. printers using alcohol-free fountain solution on web-fed or sheetfed non-heatset offset lithographic printing presses, records (*e.g.*, SDSs) demonstrating that the fountain solution constituents are alcohol-free.

(c) Each large printer shall maintain:

1. monthly purchase or usage records sufficient to demonstrate that the printer is a large printer including, but not limited to, records concerning cleanup solutions, inks, coatings, adhesives and incidental materials, excluding water based inks/coatings/adhesives, electron beam inks, ultraviolet inks, plastisol inks, and inks used in non-heatset offset lithographic printing;

2. records demonstrating that cleanup solutions, inks, coatings, and adhesives are in compliance with applicable standards set forth in 310 CMR 7.26(20) through (29) according to EPA test method 24 or 24A, as applicable, or an equivalent test methodology as determined by the Department and EPA, and appropriate documentation indicating compliance with the VOC composite partial pressure as defined in 310 CMR 7.00;

3. a calculation of actual emissions per calendar month based on all VOC and each HAP containing compound used at the facility. VOC emissions from non-heatset, non-vegetable-based inks used in lithography shall be calculated by assuming that 5% of the inks' VOCs are emitted to the atmosphere and 95% are retained in the paper. VOC emissions from heatset, non-vegetable-based inks used in lithography shall be calculated by assuming that 80% of the inks' VOCs are emitted to the atmosphere and 20% are retained in the paper. VOC emissions from vegetable-based inks used in lithography shall be calculated by assuming that 80% of the inks' VOCs are emitted to the atmosphere and 20% are retained in the paper. VOC emissions from vegetable-based inks used in lithography shall be calculated by assuming that none of the inks' VOCs are emitted to the atmosphere are 100% are retained in the paper. VOC emissions from cleaning materials in shop towels shall be calculated by assuming that 50% of the VOCs are emitted to the atmosphere and 50% are retained in the towels, only if VOC composite vapor pressure of the cleaning material is less than 10 mm Hg at 20°C and cleaning materials and used ship towels are kept in closed containers.

4. the percent by weight of VOC in fountain solution as determined each time alcohol or alcohol mix is used to mix a new batch of fountain solution and each time it is added to fountain solution on-press, based on analytical data and the proportions of the constituents mixed;

5. the daily temperature of fountain solutions required to be refrigerated pursuant to 310 CMR 7.26(24)(a)2.b. when alcohol content is greater than 5% by weight;

6. records of the percent by weight of alcohol substitutes in fountain solution as determined each time alcohol substitutes are used to mix a new batch of fountain solution and each time alcohol substitutes are added to fountain solution on-press, based on analytical data, and the properties of the constituents mixed.

7. for water-based inks/coatings/adhesives, ultraviolet inks, electron beam inks, and plastisol inks, MSDSs or other records demonstrating that the ink/coating/adhesive is water-based, ultraviolet, electron beam, or plastisol as applicable; and,

8. printers using alcohol-free fountain solution on web-fed or sheetfed non-heatset offset lithographic printing presses, records (*e.g.*, SDSs) demonstrating that the fountain solution constituents are alcohol-free.

(29) <u>Compliance Certification Requirement</u>:

(a) Beginning on September 15, 2006, each printer, except very small printers, shall submit to the Department a compliance certification on a form prescribed by the Department, in accordance with 310 CMR 70.00: *Environmental Results Program Certification* and 310 CMR 7.26(29). As part of the certification, each large printer shall submit information the Department may specify, including:

1. the nature and amounts of emissions from the facility,

2. information which may be needed to determine the nature and amounts of emissions from the facility, and

- 3. any other information pertaining to the facility which the Department requires.
- (b) 1. If, during the course of the certification period, a printer installs a new printing press or makes operational changes which will cause a modification of its size classification, the printer shall, within 60 days of operation of the new press or actual operational changes respectively, notify the Department in writing. Such printer shall comply with 310 CMR 7.26(20) through (29) based on the applicable new size classification as soon as the new press is operating or the operational change is made.

2. If, on March 9, 2020, a printer that formerly met the definition of a very small printer or small printer meets the definition of a midsize printer or a large printer, the printer shall, on or before March 9, 2020, notify the Department in writing. Such printer shall comply with 310 CMR 7.26(20) through (29) based on the applicable new size classification on and after March 9, 2020.

(c) If, during the course of the certification period, a printer relinquishes an existing plan approval in accordance with 310 CMR 7.26(23)(a)2., then within 30 days of such change the printer shall notify the Department in writing.

(30) <u>U Boilers – Applicability</u>. Except as provided in 310 CMR 7.26(30)(a) and (b), the provisions of 310 CMR 7.26(30) through (37) apply to any person who owns or operates a boiler installed on or after September 14, 2001, with a heat input rating equal to or greater than 10,000,000 Btu per hour, but less than 40,000,000 Btu per hour. Complying with the criteria in 310 CMR 7.26(30) through (37) does not relieve the owner or operator from his or her applicability to the requirements of 40 CFR 60 Subpart Dc – Standards of Performance for Small Industrial – Commercial Steam Generating Units, 40 CFR 63 Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters, or 40 CFR 63 Subpart JJJJJJ – National Emission Standards for Hazardous Air Pollutants for Industrial, and Institutional Boilers Area Sources.

(a) The provisions of 310 CMR 7.26(30) through (37) do not apply to any person who is an owner or operator of a facility:

1. who proposes to install a wood fuel-fired boiler with a heat input rating equal to or greater than 10,000,000 Btu per hour, but less than 40,000,000 Btu per hour; however, 310 CMR 7.02(5) does apply; or

2. who installs a temporary boiler in accordance with 310 CMR 7.03(23).

(b) If installation of a boiler would cause the facility to be subject to 310 CMR 7.00: *Appendix C*, or to exceed an emission cap contained in a written Department approval, or notification pursuant to 310 CMR 7.02(11), or become subject to Non-attainment Review at 310 CMR 7.00: *Appendix A* or PSD (40 CFR 52.21), the person who is an owner or operator of the facility shall, as applicable:

NON-TEXT PAGE

1. file either a Limited Plan Application pursuant to 310 CMR 7.02(4) or Comprehensive Plan Application pursuant to 310 CMR 7.02(5) to increase the facility-wide cap or to establish an emission cap to avoid applicability to Non-Attainment Review at 310 CMR 7.00: *Appendix A*, Operating Permit and Compliance Program at 310 CMR 7.00: *Appendix C* or federal PSD(40 CFR 52.21); or

2. comply with 310 CMR 7.26(30) through (37) and comply with the requirements of Non-Attainment Review at 310 CMR 7.00: *Appendix A*, the Operating Permit and Compliance Program at 310 CMR 7.00: *Appendix C* and federal PSD (40 CFR 52.21) as applicable; or

3. comply with 310 CMR 7.26(30) through (37) and submit a notification establishing an emission cap under 310 CMR 7.02(11), or a higher emissions cap under 310 CMR 7.02(11) where the installation would otherwise violate an emissions cap pursuant to 310 CMR 7.02(11); or

4. comply with 310 CMR 7.26(30) through (37) and comply with the requirements of 310 CMR 7.02(10): *Modification of a Restricted Emission Status (RES)*.

(c) Any person who is the owner/operator of a boiler installed in accordance with 310 CMR 7.26(30) shall continue to comply with 310 CMR 7.26(31) and (33) through (37) even if the facility later becomes subject to 310 CMR 7.00: *Appendix C*.

(31) <u>Definitions</u>. Terms used in 310 CMR 7.26(30) through (37) are defined in 310 CMR 7.00 or in 310 CMR 7.26(31). Where a term is defined in both 310 CMR 7.00 and in 310 CMR 7.26(31), the definition in 310 CMR 7.26(31) is applicable.

<u>ADJACENT STRUCTURE</u> means a structure that is within 5L of the stack. 5L means five times the lesser dimension (height or maximum projected width) of the structure.

<u>AUTOMATED COMBUSTION CONTROL SYSTEM</u> means a system that self adjusts burner/boiler operation to maximize energy efficiency. It must include at least the following capabilities: fuel/air ratio adjusted automatically, fuel flow metered/monitored, and continuous monitoring of nitrogen oxides (NOx) and carbon monoxide.

BOILER means a device that combusts any fuel and produces steam or heats water.

DISTILLATE FUEL OIL for the purposes of 310 CMR 7.26(30) means fuel oil that complies with the specifications for fuel oil numbers 1 or 2 as defined by the American Society for Testing and Materials in ASTM D396-98, "Standard Specification for Fuel Oil" dated September 1998 and has a sulfur content not to exceed 0.05% by weight or D6751 for bio-diesel and has a sulfur content not to exceed 0.015% by weight.

<u>INSTALL or INSTALLATION</u> as used in 310 CMR 7.26(30) means to set an emission unit in position for use. A relocation of a previously approved boiler, provided that it is relocated within the facility or to a contiguous property, owned and operated by the same owner is not an installation.

<u>ULTRA-LOW SULFUR DISTILLATE FUEL OIL (ULSD)</u> means any fuel oil or other fuel, excluding used oil fuel and hazardous waste fuel, which complies with the applicable U.S. Environmental Protection Agency sulfur limits for fuel pursuant to 40 CFR 80.29, 40 CFR 80.500, and 40 CFR 80.520(a) and (b) as in effect on January 18,2001 and either complies with the specifications for fuel oil numbers 1 or 2 as defined by the American Society for Testing and Materials (ASTM) in ASTM D-396-98 or D6751 for bio-diesel.

<u>SUPPLIER</u> means a person or persons who manufactures, provides, assembles, or installs for use a boiler subject to 310 CMR 7.26(30) through (37) for the person who is the owner or operator.

(32) <u>Certification</u>.

(a) An owner or operator of a boiler subject to 310 CMR 7.26(30) shall submit to the Department an initial compliance certification form within 60 days of the date on which the boiler commences operation.

(b) Effective December 28, 2007, prior to installation and operation, a person who is an owner or operator of a boiler subject to 310 CMR 7.26(30) shall certify to the Department, in compliance with 310 CMR 70.00, that the boiler is in compliance with 310 CMR 7.26(30) through (37).

(33) Fuel of Use/Emission Limitations.

(a) <u>Fuel of Use</u>.

1. Only natural gas and distillate fuel oil(s) may be used, as specified in 310 CMR 7.26(33)(a)2. through (a)4. Used oil fuel and Hazardous Waste Fuel as defined under 310 CMR 30.000 cannot be burned in boilers subject to 310 CMR 7.26(30).

2. NATURAL GAS – Prior to July 1, 2009:

a. a boiler subject to 310 CMR 7.26(30) shall burn natural gas as the primary fuel of use where the boiler is located on a property adjacent to a street or sidewalk underlain by a natural gas pipeline having sufficient pressure and capacity to supply natural gas to the boiler.

b. a natural gas fired boiler may burn distillate fuel oil for a maximum of 180 days per calendar year. Total annual distillate fuel use (gallons/year) is calculated by multiplying 90 days/yr x 24 hours/day x maximum firing rate (gals/hour) per boiler. Records must be established and maintained up to date in accordance with 310 CMR 7.26(36): *Recordkeeping and Reporting*.

3. DISTILLATE – Prior to July 1, 2009, a boiler subject to 310 CMR 7.26(30) may burn distillate fuel oil as the primary fuel of use when conditions for natural gas use, as specified in 310 CMR 7.26(33)(a)2., cannot reasonably be met.

4. On and after July 1, 2009, there is no restriction on the gallons of distillate fuel oil burned in a boiler subject to 310 CMR 7.26(30) through (37). The owner or operator of a boiler subject to 310 CMR 7.26(30) shall accept for delivery only natural gas or ultralow sulfur distillate fuel oil.

5. On and after July 1, 2009, an owner or operator of a boiler subject to 310 CMR 7.26(30) shall accept for delivery only natural gas or ultra-low sulfur distillate fuel oil.

(b) <u>Emission Limitations</u>. Each boiler shall comply with the following emission limitations in pounds per million Btu heat input for the fuel of use.

POLLUTANT		Emission limitation (lbs. per million Btu)
Nitrogen Oxides	Natural Gas	0.0350
	Distillate	0.150
	Ultra-low Sulfur Distillate	
	Fuel Oil	
Particulate Matter	Natural Gas	0.010
	Distillate and Ultra-low Sulfur Disti	illate 0.020
	Fuel Oil	
Carbon Monoxide	Natural Gas	0.080
	Distillate and Ultra-low Sulfur Disti	llate 0.080
	Fuel Oil	
Volatile Organic Compounds	Natural Gas	0.030
	Distillate and Ultra-low Sulfur Disti	llate 0.030
	Fuel Oil	

(c) The sulfur dioxide emissions are limited by the sulfur content of the distillate fuel oil. The sulfur content of the distillate fuel oil is limited to 0.05% by weight and the sulfur content of the ULSD fuel oil is limited to 0.0015% by weight.

(d) The carbon monoxide emission limitation specified in 310 CMR 7.26(33)(b) does not apply to high turndown boilers while operating at less than 25% of the maximum input rating.

(e) Visible Emissions (excluding water vapor) may not exceed 10% opacity at any time during boiler operation.

(34) Operational Requirements.

(a) The boiler and appurtenances shall be operated in accordance with the manufacturer's standard operating and maintenance procedures.

(b) A boiler tune-up shall be performed annually. A boiler tune-up shall include an inspection for proper operation, any other maintenance recommended by the manufacturer, and an efficiency test. An efficiency test shall include at least a smoke spot reading, flue gas temperature measurement and a measure of carbon dioxide, oxygen, and carbon monoxide. A written record of the efficiency test and any maintenance performed shall be kept on-site in accordance with the record keeping provisions contained 310 CMR 7.26(36).

(c) Fuel additives shall only be used in accordance with the manufacturer's instructions.

(35) Stack Requirements.

(a) Minimum stack height shall be 1.5 times the height of the building on which the stack is located. If the stack height is:

1. lower than 1.5 times the building height; or

2. lower than the height of an adjacent structure, an EPA Guideline air quality model shall be run to document that the operation of the applicable boiler(s) will not cause National Ambient Air Quality Standards exceedances. The air quality model documentation must be retained on-site for as long as the boiler(s) are operational.

(b) Stacks shall not be equipped with rain protection of a type that restricts the vertical exhaust flow of the combustion gases as they are emitted to the ambient air. "Shanty caps", "egg beaters" and the like are prohibited.

(c) The stack shall be configured to discharge the combustion gases vertically upwards.

(36) <u>Recordkeeping and Reporting</u>.

(a) A recordkeeping system shall be established and implemented onsite and shall provide sufficient detail to document compliance.

- (b) Recordkeeping shall include the following:
 - 1. dates of boiler installation and first operation;

2. a monthly record of fuel type, fuel additives, fuel usage in gallons or cubic feet, and sulfur content, as certified by the fuel supplier;

3. a written record of all tune-ups, including inspections, maintenance, and results of the efficiency tests, and;

4. all purchase orders and invoices related to boiler combustion or emission rate.

(c) Documentation shall be maintained onsite that the boiler and its appurtenances, as designed and installed, will comply with the emission limitations when operated in accordance with the manufacturer's instructions. This documentation, including the manufacturer's operating instructions, shall be retained for as long as the boiler operates.

(d) All records shall be maintained up-to-date such that year-to-date information is readily available for Department examination. Records shall be kept for at least three calendar years.(e) The person who is the owner or operator of an applicable boiler is subject to the

reporting requirements of 310 CMR 7.12: U Source Registration.

(37) <u>Prohibitions</u>.

- (a) Concealing of emissions is prohibited.
- (b) Removal of air pollution control or monitoring equipment is prohibited.
- (c) Natural draft rotary cup burners are prohibited.

(40) <u>Engines and Combustion Turbines.</u>

(a) <u>Engines and Turbines</u>. For engines and turbines installed on and after March 23, 2006, the owner/operator of:

1. An emergency engine or turbine shall comply with the requirements of 310 CMR 7.26(42).

2. Any other engine or turbine shall comply with the requirements of 310 CMR 7.26(43) or 7.02(5), except that an engine or turbine in a CHP operation may comply with 310 CMR 7.26(45) if it meets the requirements of 310 CMR 7.26(45).

(b) <u>Exceptions.</u> 310 CMR 7.26(40) through (45) shall not apply to:

 An engine that is operated as a nonroad engine as defined under 40 CFR 1068.30.
 Any construction or major modification that would be subject to Prevention of Significant Deterioration (PSD) review, or Emission offsets and Non-attainment Review at 310 CMR 7.00: *Appendix A*, with respect to the installation of the engine or turbine.

(41) <u>Definitions</u>. Terms used in 310 CMR 7.26(40) through (45) are defined in 310 CMR 7.00 and 7.26(41). When a term is defined in both 310 CMR 7.00 and 7.26(41), the definition in 310 CMR 7.26(41) shall govern.

<u>Applicable Model Year</u> means the model year that corresponds to the calendar year in which the engine is installed.

<u>Combined Heat and Power (CHP)</u> means a system consisting of an engine or turbine in combination with a heat recovery system such as a boiler that sequentially produces both electric power and thermal energy for use.

<u>Design System Efficiency</u> means the sum of the full load design thermal output and electric output divided by the heat input, all in consistent units of measurement.

<u>Emergency</u> means an electric power outage due to failure of the electrical supply, in whole or in part, on-site disaster, local equipment failure, flood, fire, or natural disaster. <u>Emergency</u> shall also mean when the imminent threat of a power outage is likely due to failure of the electrical supply.

<u>Engine</u> means spark ignition (SI) or compression ignition (CI) stationary reciprocating internal combustion engine.

<u>Install</u> or <u>Installation</u> as used in 310 CMR 7.26(42) and (43), means to set an emission unit in position for use. Relocating a previously approved engine or turbine within the same facility or to a contiguous property owned and operated by the same owner is not an installation.

<u>Model Year</u> means the calendar year in which the engine was originally produced, or the annual new model production period of the engine manufacturer if it is different than the calendar year. Model Year shall include January 1st of the calendar year for which the model year is named. Model Year shall not begin before January 2nd of the previous calendar year, and it shall end by December 31st of the named calendar year. For an engine that is converted to a stationary engine after being placed into service as a non-road or other non-stationary engine, <u>Model Year</u> means the calendar year or new model production period in which the engine was originally produced.

<u>Power-to-heat Ratio</u> means the design electrical output divided by the design-recovered thermal output in consistent units of measurement.

<u>Rated Power Output</u> means the maximum mechanical power output stated on the nameplate affixed to the engine or turbine by the manufacturer.

Supplier means a person that manufactures, assembles, or otherwise supplies engines or turbines.

<u>Turbine</u> means a stationary combustion turbine.

(42) <u>Emergency Engines and Emergency Turbines</u>.

(a) <u>Applicability</u>. 310 CMR 7.26(42) shall apply to any person who owns or operates an engine with a rated power output equal to or greater than 37 kW or a turbine with a rated power output less than one MW, that is installed on and after March 23, 2006, if said engine or turbine complies with 310 CMR 7.26(42).

(b) <u>Emission Limitations</u>. The owner/operator of an engine or turbine subject to 310 CMR 7.26(42) shall comply with the emission limitations and documentation as follows:

1. Engines installed before March 9, 2018, shall comply with the applicable model year emission limitations set by EPA for nonroad compression ignition engines (40 CFR 89 as in effect October 23, 1998) at the time of the engine installation.

2. Engines installed on and after March 9, 2018 shall comply with the applicable model year emission limitations set by EPA in Standards of Performance for New Stationary Sources for emergency compression ignition reciprocating engines under 40 CFR 60 Subpart IIII.

3. The owner/operator of an engine subject to the requirements of 310 CMR 7.26(42)(b)1. and 2. shall obtain from the supplier a statement that a certificate of conformity has been obtained from the Administrator.

a. For an engine installed on or before March 9, 2018 pursuant to 40 CFR 89.105 as in effect October 23, 1998, any engine certified under EPA nonroad standards is automatically certified to operate as an emergency engine pursuant to 310 CMR 7.26(42).

b. For a spark ignition engine, a letter or other documentation from the supplier stating that the engine meets the applicable emission limitation shall satisfy the certificate of conformity requirement in 310 CMR 7.26(42)(b)3.

4. A turbine with a rated power output less than one MW shall comply with the emission limitations contained in 310 CMR 7.26(42): *Table 1*.

<u>Table 1</u>.

Emission Limitations – Emergency Turbines

Rated Power Output	Oxides of Nitrogen
< 1 MW	0.60 pounds/MWh

(c) <u>Fuel Requirements</u>. No person shall accept delivery for burning in any engine or turbine subject to 310 CMR 7.26(42) diesel or any other distillate fuel that does not meet the sulfur content limits for fuel in 310 CMR 7.05.

(d) <u>Operational Requirements</u>. Any person who owns or operates an engine or turbine subject to 310 CMR 7.26(42) shall comply with the following requirements:

1. Operation and Maintenance.

a. An engine or turbine shall operate only:

1. for up to 100 hours per calendar year, or as otherwise approved by EPA, for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine; 2. as part of the 100 hours, for up to 50 hours per calendar year for non-emergency situations; and

3. during an emergency.

b. Additional limitations and conditions may apply, including but not limited to 40 CFR Part 63, Subpart ZZZZ; 40 CFR Part 60, Subpart JJJJ; and 40 CFR Part 60, Subpart IIII.

c. A non-turn-back hour counter shall be installed, operated and maintained in good working order on each unit.

Sound. Engines, turbines and associated equipment shall be constructed, located, operated and maintained in a manner to comply with the requirements of 310 CMR 7.10.
 Stack Height and Emission Dispersion.

a. All engines or turbines shall utilize an exhaust stack that discharges so as to not cause a condition of air pollution (310 CMR 7.01(1)).

i. Exhaust stacks shall be configured to discharge the combustion gases vertically and shall not be equipped with any part or device that impedes the vertical exhaust flow of the emitted combustion gases.

ii. Any emission impacts of exhaust stacks upon sensitive receptors including, but not limited to, people, windows and doors that open, and building fresh air intakes shall be minimized by employing good air pollution control engineering practices. Such practices include without limitation:

(i) Avoiding locations that may be subject to downwash of the exhaust; and

(ii) Installing a stack of sufficient height in locations that will prevent and

minimize flue gas impacts upon sensitive receptors.

b. An engine or turbine with a rated power output equal to or greater than 300 kW, shall have an exhaust stack with a minimum stack height of ten feet above the facility rooftop or the emergency engine or turbine enclosure, whichever is lower.

c. An engine with a rated power output equal to or greater than one MW shall be equipped with a exhaust stack with a minimum stack height of 1.5 times the height of the building on which the stack is located. If the stack is lower than 1.5 times the building height or lower than the height of a structure that is within 5L of the stack (5L being five times the lesser of the height or maximum projected width of the structure), the owner/operator shall submit documentation that the operation of the engine or turbine will not cause an exceedance of any National Ambient Air Quality Standard.

5. <u>Visible Emissions</u>. Engines and turbines shall comply with all the requirements of 310 CMR 7.06(1)(a) and (b).

(e) <u>Emission Certification, Monitoring and Testing</u>.

1. <u>Certification</u>. No person shall cause, suffer, allow, or permit the installation and subsequent operation of an engine or turbine unless said person has certified compliance with the requirements of 310 CMR 7.26(42) in its entirety in accordance with the provisions of 310 CMR 70.00: *Environmental Results Program Certification*. Certification shall include a statement from the supplier that the installed engine or turbine is capable of complying with the emission limitations for the first three years of operation. A one-time certification shall be made to the Department within 60 days of commencement of operation. An annual certification is not required.

2. <u>Monitoring</u>. The Department may require emission or other monitoring to assure compliance with the requirements of 310 CMR 7.26(42).

3. <u>Testing</u>. Any testing when required shall comply with the following:

a. Tests to certify compliance with emission limitations shall be performed in accordance with EPA reference Methods, California Air Resources Board Methods approved by EPA, or equivalent methods as approved by the Department and EPA.
b. Particulate matter from reciprocating engines using liquid fuel shall be determined using Method 8178 D2 of the International Organization for Standardization.

c. The Department may require emission or other testing to assure compliance with the emission limitations or fuel requirements.

(f) <u>Recordkeeping and Reporting</u>. The owner/operator shall maintain records described in 310 CMR 7.26(42)(f)1. through 4. Such records shall be maintained on site or for remote locations, at the closest facility where records can be maintained and shall be made available to the Department or its designee upon request. The owner/operator shall certify that records are accurate and true in accordance with 310 CMR 7.01(2)(a) through (c).

1. Information on equipment type, make and model, and rated power output;

2. A log of operations, including date, time and duration of operation and reason for each start per 310 CMR 7.26(42)(d)1, fuel type and supplier;

3. Purchase orders, invoices, and other documents to substantiate information in the log; and

4. Copies of all certificates and documents from the manufacturer related to certificates.

(43) <u>Engines and Turbines</u>.

(a) <u>Applicability</u>. 310 CMR 7.26(43) in its entirety shall apply to any person who owns or operates an engine with a rated power output equal to or greater than 50kW or a turbine with a rated power output less than or equal to ten MW that is installed on or after March 23, 2006, except:.

1. Engines and turbines subject to 310 CMR 7.26(42) are not subject to the requirements of 310 CMR 7.26(43).

2. The owner/operator of any engine or turbine subject to 310 CMR 7.26(43) may comply with the requirements of 310 CMR 7.02(5)(c) for such unit in *lieu* of complying with the requirements of 310 CMR 7.26(43).

3. The owner/operator of a turbine with a rated output of less than one MW burning fuel oil, or greater than ten MW burning any fuel, shall comply with the requirements of 310 CMR 7.02(5)(c) for such unit.

4. On and after January 17, 2009, any owner/operator who constructs, substantially reconstructs or alters an engine or turbine that is part of a combined heat and power system, may satisfy 310 CMR 7.26(43)(b) by complying with the requirements of 310 CMR 7.26(45).

(b) <u>Emission Limitations</u>. An owner/operator of an engine or turbine subject to 310 CMR 7.26(43) shall comply with the emission limitations established in 310 CMR 7.26(43): *Table 1, 2* and *3*.

<u>Table 1</u> Emission Limitations – Engines

Installation Date	Oxides of Nitrogen	Particulate Matter (Liquid Fuel Only)	<u>Carbon</u> Monoxide
On and after 3/23/06	0.6 lbs/MWh/megawatt- hour (MWh)	<pre> ≤ 1MW 0.7 lbs/MWh; > 1 MW 0.09 lbs/MWh </pre>	10 lbs/MWh
On and after 1/1/08	0.3 lbs/MWh	0.07 lbs/MWh	2 lbs/MWh
On and after 1/1/12	0.15 lbs/MWh	0.03 lbs/MWh	1 lb/MWh

<u>Table 2</u> Emission Limitations – Turbines

Rated Power Output	Oxides of Nitrogen	Ammonia	Carbon Monoxide
Less than 1 MW	0.47 lbs/MWh Natural Gas	N/A	0.47 lbs/MWh Natural Gas
1 to 10 MW	0.14 lbs/MWh Natural Gas 0.34 lbs/MWh Oil	11 2	0.09 lbs/MWh Natural Gas 0.18 lbs/MWh Oil

Table 3		
Emission Limitations – Engines and Turbines		

Installation Date	Carbon Dioxide
On and after 3/23/06	1900 lbs/MWh
On and after 1/1/08	1900 lbs/MWh
On and after 1/1/12	1650 lbs/MWh

(c) <u>Fuel Requirements</u>. No person shall accept delivery for burning in any engine or turbine subject to 310 CMR 7.26(43) diesel or any other distallate fuel that does not meet the sulfur content limit for fuel pursuant to 310 CMR 7.05.

(d) <u>Operational Requirements</u>. Any person who owns or operates an engine or turbine subject to 310 CMR 7.26(43) shall comply with the following operational requirements:

1. <u>Operation and Maintenance</u>. The engine or turbine shall be operated and maintained in accordance with the manufacturers recommended operating and maintenance procedures.

Sound. Engines, turbines and associated equipment shall be constructed, located, operated and maintained in a manner to comply with the requirements of 310 CMR 7.10.
 Stack Height and Emission Dispersion.

a. An engine or turbine shall utilize an exhaust stack that discharges so as to not cause a condition of air pollution (310 CMR 7.01(1)). The exhaust stack shall be configured to discharge the combustion gases vertically and shall not be equipped with any part or device that impedes the vertical exhaust flow of the emitted combustion gases. Any emission impacts of exhaust stacks upon sensitive receptors such as people, windows and doors that open, and building fresh air intakes shall be minimized by employing good air pollution control engineering practices. Such practices include without limitation:

i. Avoiding locations that may be subject to downwash of the exhaust.

ii. Installing s stack of sufficient height in a location that will prevent and minimize flue gas impacts upon sensitive receptors.

b. Engines and turbines burning liquid fuel and with a rated power output of less than 300 kW shall be equipped with an exhaust stack with a minimum stack height of five feet above the rooftop or the engine or turbine enclosure, whichever is higher.c. Engines and turbines with a rated power output equal to or greater than 300kW, shall be equipped with an exhaust stack with a minimum stack height of ten feet above the rooftop or the engine or turbine enclosure, whichever is higher.

d. Engines and turbines with a rated power output equal to or greater than one MW shall be equipped with an exhaust stack with a minimum stack height of 1.5 times the height of the building on which the stack is located. If the stack is lower than 1.5 times the building height or lower than the height of a structure that is within 5L of the stack (5L being five times the lesser of the height or maximum projected width of the structure), the owner/operator shall submit documentation that the engine or turbine will not cause an exceedance of any National Ambient Air Quality Standard.

- 4. <u>Visible Emissions</u>. Engines and turbines shall comply with all the requirements of $\frac{210}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$
- 310 CMR 7.06(1)(a) and (b).
- (e) <u>Emission Certification</u>, <u>Monitoring and Testing</u>.

1. <u>Certification</u>. No person shall cause, suffer, allow, or permit the installation and subsequent operation of an engine or turbine unless said person has certified compliance with the requirements of 310 CMR 7.26(43) in its entirety in accordance with the provisions of 310 CMR 70.00: *Environment Results Program Certification*. Certification by such person shall include a statement from the supplier that the installed engine or turbine is capable of complying with the emission limitations for the lesser of 15,000 hours of operation or the first three years of operation. A one time certification shall be submitted to the Department 30 days prior to commencement of operation. An annual certification is not required.

2. <u>Monitoring</u>. The Department may require emission or other monitoring to assure compliance with the requirements of 310 CMR 7.26(43).

3. <u>Testing</u>. Any testing when required shall comply with the following:

a. Tests to certify compliance with emission limitations must be performed in accordance with EPA reference Methods, California Air Resources Board Methods as approved by EPA, or equivalent methods as approved by the Department and EPA.
b. Particulate matter, from liquid fuel reciprocating engines, shall be determined using Method 8178 D2 of the International Organization for Standardization.
c. The Department may require emission or other testing to assure compliance with

c. The Department may require emission or other testing to assure compliance with the emission limitations or fuel requirements.

(f) <u>Record Keeping and Reporting</u>. The owner/operator shall maintain records described in 310 CMR 7.26(43)(f)1. through 3. Such records shall be made available to the Department or its designee upon request. The owner/operator shall certify that records are accurate and true in accordance with 310 CMR 7.01(2)(a) through (c).

- 1. Information on equipment type, make and model, and maximum rated power output;
- 2. Fuel type and supplier; and
- 3. Copies of certificates and documents from the manufacturer related to certificates.

(44) <u>Change in Operational Status</u>. An owner/operator of an engine or turbine subject to the requirements of 310 CMR 7.26(42): *Emergency Engines and Turbines* may elect to operate as a non-emergency engine or turbine by complying with either of the two following methods.

(a) Submit an application and receive approval under the requirements of 310 CMR 7.02(5); or

(b) Certify to the Department that the engine or turbine meets all applicable requirements of 310 CMR 7.26(43).

(45) <u>Combined Heat and Power (CHP)</u>. The purpose of 310 CMR 7.26(45) is to encourage the installation of CHP systems. A methodology is set forth whereby emission credits are utilized in determining compliance of a CHP installation with the emission limitations contained in 310 CMR 7.26(43)(b).

(a) <u>Eligibility</u>. CHP installations shall meet the following requirements to be eligible for emission credits related to thermal output:

- 1. The power-to-heat ratio shall be between 4.0 and 0.15.
- 2. The design system efficiency shall be at least 55%.

- 3. The CHP project shall comply with the requirements of 310 CMR 7.02(5)(c).
- 4. The engine shall have a rated power output equal to or greater than 50 kW or the turbine shall have a rated power output less than or equal to ten MW.

(b) <u>Emission Credits</u>. A CHP system that meets the requirements in 310 CMR 7.26(45)(a) may receive a compliance credit against its actual emissions based on the emissions that would have been created by a conventional separate system used to generate the same thermal output. The credit will be subtracted from the actual CHP system emissions for the purpose of calculating compliance with the emission limitations contained in 310 CMR 7.26(43)(b). The credit will be calculated according to the following assumptions and procedures:

- 1. The emission rates for the displaced thermal system (e.g. boiler) shall be:
 - a. For CHP installed in new facilities, the emissions limits applicable to new natural gas-fired boilers in 310 CMR 7.26(33) in lb/MMBtu.

b. For CHP systems that replace existing thermal systems for which historic emission rates can be documented, the historic emission rates in lbs/MMBtu, but not more than:

Emissions	Maximum Rate
Nitrogen oxides	0.3 lbs/MMBtu
Carbon monoxide	0.08 lbs/MMBtu
Carbon dioxide	117 lbs/MMbtu

2. The emission rate of the thermal system in lbs/MMBtu will be converted to an output-based rate by dividing by the thermal system efficiency. For new systems, the efficiency of the avoided thermal system will be assumed to be 80% for boilers or the design efficiency of other process heat systems. If the design efficiency of the other process heat system cannot be documented, an efficiency of 80% will be assumed. For retrofit systems, the historic efficiency of the displaced thermal system can be used if that efficiency can be documented and if the displaced thermal system is enforceably shut down and replaced by the CHP system, or if its operation is measurably and enforceably reduced by the operation of the CHP system.

3. The emissions per MMBtu of thermal energy output shall be converted to emissions per MWh of thermal energy by multiplying by $3.412 \text{ MMBtu/MWh}_{\text{thermal}}$.

4. The emissions credits in lbs/MWh_{thermal}, as calculated in 310 CMR 7.26(45)(b)3., shall be converted to emissions in lbs/MWh_{emissions} by dividing by the CHP system power-to-heat ratio.

5. The credit, as calculated in 310 CMR 7.26(45)(b)4., shall be subtracted from the actual emission rate of the CHP system to produce the emission rate for compliance purposes.

6. The mathematical calculations set forth in 310 CMR 7.26(45)(b)1. through 4. are expressed in the following formula:

$$Credit \ lbs/MWh_{emissions} = \frac{(boiler \ limit \ lbs/MMBtu)}{(boiler \ efficiency)} X \frac{3.412 \ MMBtu/W_{thermal}}{(power-to-heat \ ratio)}$$

7. The amount of credit allowed for oxides of nitrogen shall be limited such that total emissions from the CHP system shall be no greater than the sum of emissions from two separate systems producing the amount of electrical and thermal output.

(50) Outdoor Hydronic Heaters - Applicability.

(a) 310 CMR 7.26(50) through (54) applies to any person who owns, operates, manufactures, supplies, distributes or sells, or any person who intends to distribute or sell, or market an outdoor hydronic heater for use in the Commonwealth of Massachusetts (Commonwealth), except outdoor hydronic heaters rated with a heat input of one MMBtu/hr or greater that are subject to the Comprehensive Plan Application provisions at 310 CMR 7.02(5)(a)4.

(b) In addition to 310 CMR 7.26(50) through (54), Outdoor hydronic heaters may also be required to comply with other regulations governing design, manufacture and installation of boilers, including, but not limited to:

- 1. 522 CMR 5.00, Heating Boilers;
- 2. 522 CMR 6.00, Low-pressure Heating Boilers;

3. 527 CMR 4.00, Oil Burning Equipment, for outdoor hydronic heaters that are dual-fuel units; and

4. 780 CMR 6007, Solid Fuel-burning Appliances of the State Building Code.

(51) <u>Definitions</u>. The following words and phrases shall have the following meanings as they appear in 310 CMR 7.26(50) through (54). Where a term is defined in 310 CMR 7.00 and the definition also appears in 310 CMR 7.26(51) for purposes of 310 CMR 7.26(50) through (54) interpretation, the definition found in 310 CMR 7.26(51) shall govern.

At Retail means the sale by a commercial proprietor of an outdoor hydronic heater.

<u>Clean Wood</u> means wood that has no paint, stains, or other types of coatings, and wood that has not been treated with preservatives, including but not limited to, copper chromium arsenate, creosote, or pentachlorophenol.

<u>Commercial-size Outdoor Hydronic Heater</u> means a heater with a rated thermal output greater than 350,000 Btu/hr and a heat input design capacity less than one MMBtu/hr as rated by the test method identified in 310 CMR 7.26(54)(c)2.

<u>Distribute or Sell</u> means to distribute, sell, advertise for sale, offer for sale, lease, ship, deliver for shipment, release for shipment, or receive and (having so received) deliver or offer to deliver for use in the Commonwealth.

<u>EPA's ETV Program</u> means U.S. Environmental Protection Agency's Environmental Technology Verification Program.

<u>Executive Summary</u> means a report submitted to the Department that summarizes the results of testing compiled using tables 1, 2a and 2b, heating season and year-round weighted average, respectively, as incorporated in the EPA test method 28 for outdoor hydronic heaters for the applicable particulate matter standards.

Existing Unit or Existing Outdoor Hydronic Heater means an outdoor hydronic heater that is contracted to be paid in full, or installed and/or operated at the intended location of use prior to December 26, 2008.

<u>Heater Efficiency</u> means the ratio of the delivered useful heat output measured by the prescribed test method referenced in 310 CMR 7.26(54)(c)2. to the calculated heat input of the hydronic heater measured by the same test method.

Heating Season means the period beginning October 1st and ending May 15th.

<u>Manufactured</u> means built and operational, and subsequently ready for shipment (whether packaged or not).

<u>Manufacturer</u> means any person who constructs or imports into the United States an outdoor hydronic heater for use in the Commonwealth.

<u>Model</u> means all outdoor hydronic heaters offered for distribution or sale by a single manufacturer that are the same design and output capacity.

<u>Opacity</u> means the degree to which emissions other than water reduce the transmission of light and obscure the view of an object in the background.

Outdoor Hydronic Heater (OHH) or Heater means a fuel burning device:

(a) designated to burn wood or other approved solid fuels;

(b) that the manufacturer specifies for outdoor installation or installation in structures not normally occupied by humans (*e.g.*, garages); and

(c) heats building space and/or water via the distribution, typically through pipes, of a fluid heated in the device, typically water or a water/antifreeze mixture.

<u>Operator</u> means any person who owns or operates an outdoor hydronic heater in the Commonwealth.

<u>Particulate Matter or PM</u> means the total particulate matter measured in accordance with the test methods specified in 310 CMR 7.26(54)(c)2.

<u>Residential-size Outdoor Hydronic Heater</u> means a heater with a rated thermal output of 350,000 Btu/hr or less as rated by the test method identified in 310 CMR 7.26(54)(c)2.

Sale means the transfer of ownership or control.

<u>Seller</u> means any person who distributes or sells an outdoor hydronic heater for use in the Commonwealth.

Similar in All Material Respects means that the construction materials, exhaust and inlet air system, and other design features are within the allowed tolerances for components identified in 310 CMR 7.26(54)(e)1.

<u>Startup Period</u> means the time period beginning with flame stability after first charge of wood fuel or other approved solid fuel and is no longer than a two-hour duration. 310 CMR 7.26: <u>Startup Period</u> only includes initial startup where no previous coal bed exists. This does not include refueling.

(52) <u>Requirements for Operators</u>.

(a) On and after December 26, 2008 no person shall:

1. Purchase, install or allow the installation of an outdoor hydronic heater unless it has been certified in accordance with 310 CMR 7.26(54)(a) to meet the applicable emission standard set forth in 310 CMR 7.26(53)(a) or 310 CMR7.26(53)(b).

2. Site or install a residential-size outdoor hydronic heater that meets the emission standard at 310 CMR 7.26(53)(a), unless it is installed at least 50 feet from any property line and 75 feet from any occupied dwelling that it is not serving at the time of installation.

3. Site or install a commercial-size outdoor hydronic heater that meets the emission standard defined in 310 CMR 7.26(53)(b), unless it is installed at least 275 feet or more from any property line and 300 feet from any occupied dwelling that it is not serving, at the time of installation, unless a variance has been granted pursuant to 310 CMR 7.26(52)3.a. through d. from the setback to the property line that allows a shorter distance than 275 feet.

a. <u>Variance Procedure</u>. An application for a variance from the setback to the property line shall be submitted to the Department by the owner prior to installation of the unit. The Department will not grant a variance from the required distance of 300 feet to the nearest occupied dwelling.

b. Prior to submitting an application to the Department, the applicant shall, at its sole expense, notify the following groups by certified mail of the request for a variance:

i. residents of any occupied dwelling within 500 feet of the proposed location of the unit;

ii. the board of health of the municipality in which the unit is to be located; and iii. the board of health of the adjacent municipality if the unit is within 500 feet of an adjacent municipality.

c. Application Requirements. In the application for a variance, the owner shall:

i. Show that meeting the setback is not feasible, based solely on the size and configuration of the property on which the unit is to be installed. Feasibility shall not include consideration of cost to install the unit if the size of the property is sufficient to meet the setback.

ii. Include a detailed site plan that clearly shows the proposed location and distances of the unit relative to the applicant's property lines and the distances to all occupied dwellings or buildings within 500 feet of the unit, and the zoning of the adjacent properties;

iii. Include a copy of the notice and certified mail receipts showing the appropriate people were notified as required at 310 CMR 7.26(52)(a)3.b.

d. <u>Criteria for Granting or not Granting the Variance</u>.

i. Meeting the setback to the property line is not feasible based solely on the size and configuration of the property.

ii. In no case shall a variance be granted for a distance of less than 200 feet to the property line.

iii. Granting such a variance will not cause or contribute to a condition of air pollution.

e. <u>Appeals of Determinations</u>. The applicant or any party who is aggrieved by the decision issued by the Department may request an adjudicatory hearing on that determination in accordance with 310 CMR 1.00 and M.G.L. c. 30A.

4. Site or install an outdoor hydronic heater that meets the emission standard defined in 310 CMR 7.26(53)(a) or 310 CMR 7.26(53)(b), unless it has a permanent stack extending two feet higher than the peak of any roof structure located within 150 feet of the outdoor hydronic heater, if the outdoor hydronic heater is installed less than 150 feet from the nearest occupied dwelling that it is not serving.

(b) <u>Existing Units</u>. All operators of existing outdoor hydronic heaters shall comply with the following requirements:

1. 310 CMR 7.26(52)(c) through 310 CMR 7.26(52)(j); and

2. have a permanent stack extending two feet higher than the peak of any roof structure located within 150 feet of the outdoor hydronic heater, if the outdoor hydronic heater is installed less than 150 feet from the nearest occupied dwelling that it is not serving. Such permanent stack shall be installed no later than March 1, 2009.

(c) <u>Seasonal Limitations</u>. No person shall cause, suffer, allow or permit the operation of an outdoor hydronic heater from May 16^{th} to September 30^{th} unless the outdoor hydronic heater has been certified in accordance with 310 CMR 7.26(54) to meet the emission standard set forth in 310 CMR 7.26(53)(a) or 310 CMR 7.26(53)(b) as applicable or it is on existing unit installed at least 500 feet from the nearest occupied dwelling that it is not serving.

(d) <u>Prohibited Fuels</u>. No person shall cause, suffer, allow or permit the burning of any of the following items in an outdoor hydronic heater:

- 1. Any wood that does not meet the definition of clean wood;
- 2. garbage;
- 3. tires;
- 4. lawn clippings, leaves, brush trimmings, or general yard waste;
- 5. materials containing asbestos,
- 6. materials containing lead, mercury, or other heavy or toxic metals;
- 7. materials containing plastic;
- 8. materials containing rubber;
- 9. waste petroleum products;
- 10. paints and paint thinners;
- 11. chemicals;
- 12. coal;
- 13. glossy or colored papers;
- 14. construction and demolition debris;
- 15. plywood;
- 16. particleboard;
- 17. salt water driftwood and other previously salt water saturated materials;
- 18. manure;
- 19. animal carcasses; and
- 20. asphalt products.

(e) <u>Allowable Fuels</u>. No person that operates an outdoor hydronic heater shall cause, suffer, allow or permit the use of a fuel other than the following:

- 1. Clean wood;
- 2. Wood pellets made from clean wood;

 Home heating oil in compliance with the applicable sulfur content limit or natural gas may be used as starter fuels or substitute fuel in dual-fired outdoor hydronic heaters; and
 Other biomass fuels as approved by the Department.

(f) Visible Emission Standard.

1. No person shall cause, suffer, allow or permit the emission of air contaminants from any residential-size outdoor hydronic heater or commercial-size outdoor hydronic heater to exceed an average of 20% opacity for two minutes in any one-hour period.

2. No person shall cause, suffer, allow or permit the emission of air contaminants from any commercial-size outdoor hydronic heater to exceed at any time 40% opacity for the first six minutes during the startup period of a new fire. For the remainder of the startup period no person shall cause or allow the emission of air contaminants from any outdoor hydronic heater to exceed a 20% opacity standard in any consecutive two minute average period. 310 CMR 7.26(52)(f)2. only applies to the initial firing of the unit where no coal bed exists and does not apply to refueling.

(g) No person shall cause, suffer, allow or permit the operation of any outdoor hydronic heater except in conformance with the manufacturer's operating and maintenance instructions.

(h) No person shall operate an outdoor hydronic heater using a rain cap unless this device is required by the manufacturer specifications.

(i) No person shall cause, suffer, allow or permit the operation of an outdoor hydronic heater in such a manner as to create a condition of air pollution as defined in 310 CMR 7.00.
 (j) <u>Enforcement</u>. An operator of an outdoor hydronic heater shall comply with all applicable regulations, and state and local laws, including but not limited to local bylaws, regulations, and local ordinances. Operators are subject to the enforcement provisions specified at 310 CMR 7.52.

(53) <u>Requirements for Sellers</u>.

(a) <u>Particulate Matter Emission Standards for Residential-size Outdoor Hydronic Heaters</u>. On and after December 26, 2008, no person shall import, distribute or sell, install or allow the installation of a residential-size outdoor hydronic heater for use in the Commonwealth, unless it has been certified to meet a particulate matter emission limit of 0.32 lb/MMBtu heat output. In addition, within each of the burn rate categories as established in EPA test method 28 WHH, no individual test run shall exceed 18 grams per hour.

(b) <u>Particulate Emission Standards Commercial-size Outdoor Hydronic Heaters</u>. On and after December 26, 2008, no person shall import, distribute or sell, install or allow the installation of an outdoor hydronic heater for use in the Commonwealth, unless it has been certified to meet a particulate matter emission standard of 0.32 lb/MMBtu heat output. In addition, within each of the burn rate categories as established in EPA test method 28 WHH, no individual test run shall exceed 20 grams per hour.

(c) <u>Labeling</u>. On and after December 26, 2008, no person shall import, distribute or sell, install or allow for installation an outdoor hydronic heater for use in the Commonwealth without meeting the labeling requirements in 310 CMR 7.26(54)(j).

(d) <u>Notice to Buyers</u>. No person shall distribute or sell an outdoor hydronic heater for use in the Commonwealth, unless prior to any sale or lease agreement, the seller provides the buyer or lessee with a copy of 310 CMR 7.26(50) through (54), the owners manual, including operating and maintenance instructions, a written fact sheet provided by the Department and a copy of the certification as required by 310 CMR 7.26(54) of the model to be installed.

(e) <u>Enforcement</u>. Sellers shall comply with all applicable regulations, and state and local laws including, but not limited to, local bylaws, regulations and ordinances. 310 CMR 7.26(53) is subject to the enforcement provisions specified at 310 CMR 7.52.

(54) <u>Requirements for Manufacturers</u>.

(a) <u>Certification Requirement</u>.

1. On and after December 26, 2008, no person shall import, distribute or sell, install or allow the installation of an outdoor hydronic heater for use in the Commonwealth, unless the manufacturer has certified compliance with the requirements of 310 CMR 7.26(53)(a) or 310 CMR 7.26(53)(b) in accordance with the provisions of 310 CMR 7.26(54)(b). A certification submitted to the Department shall be valid for a period of five years, unless revoked by the Department under 310 CMR 7.26(54)(g).

2. The date of certification shall be 30 days from the date postmarked on the envelope used to submit the certification to the Department, as required under 310 CMR 7.26(54)(b), unless the Department, within those 30 days, notifies the manufacturer that the date of certification shall be greater than 30 days.

(b) <u>Certification Procedure</u>. For each model, a manufacturer shall have at least one outdoor hydronic heater tested by an accredited laboratory in order to demonstrate that the model meets the applicable emission standard(s). The manufacturer shall submit an executive summary to the Department. The Department may request, at its discretion, the entire test report including, but not limited to, the raw data and notes taken at the applicable laboratory.

The certification shall include, but not be limited to, the following information that:

1. testing was conducted in accordance with EPA's test method 28 WHH or an alternative method approved by the Department;

2. testing was conducted by an accredited laboratory;

3. certification testing was performed for heating season use and/or year-round use;

4. testing results indicated that the outdoor hydronic heater meets the emission standards as defined in 310 CMR 7.26(53)(a) and 310 CMR 7.26(53)(b);

5. the manufacturer was not involved in conducting the testing procedures, except for providing specifications and assembly drawings;

6. the accredited laboratory conducted a certification test on an outdoor hydronic heater similar in all material respects to other units of the model to be certified;

7. the test data was reviewed in accordance with EPA's ETV Program or, alternatively, an independent contractor approved by the Department who has no conflict of interest or financial gain in the outcome of the testing or by the Department in its discretion solely or in coordination with other NESCAUM state representatives; and

8. a responsible official certifies in accordance with 310 CMR 70.03(2) on forms prescribed and furnished by the Department.

(c) <u>Testing Requirements</u>.

1. <u>Test Facility</u>.

a. All emissions testing shall be conducted by an accredited, qualified, and independent testing laboratory that has no conflict of interest or financial gain in the outcome of the testing.

b. Manufacturers of outdoor hydronic heaters shall not involve themselves in the conduct of any emissions testing under 310 CMR 7.26(54)(c) or in the operation of the unit being tested, once actual testing has begun.

- 2. <u>Test Method</u>. Emission tests shall be conducted using one of the following:
 - a. EPA Test Method 28 WHH; or
 - b. An alternative method approved by the Department.

3. <u>Btu Rating</u>. Testing to determine the heat output in MMBtu/hr shall be conducted according to the test method defined in 310 CMR 7.26(54)(c)2.

4. <u>Test Protocols</u>. If there is any deviation from the test method defined in 310 CMR 7.26(54)(c)2.a., the manufacturer of the outdoor hydronic heater shall provide the Department, or equivalent authority approved by the Department, with a test protocol for approval in accordance with the testing requirements in 310 CMR 7.26(54)(c) 45 days prior to the emission testing for certification. The Department shall approve or disapprove the proposed test protocol in writing within 30 days.

(d) <u>Approved Test Facilities</u>. An accredited laboratory shall conduct all of the testing, test reporting, and product inspection requirements of 310 CMR 7.26(50) through (54), but the manufacturer shall be responsible for ensuring that all information required pursuant to 310 CMR 7.26(50) through (54) is provided to the Department. Emission test reviews for certification shall be conducted by EPA's ETV Program or, alternatively, an independent contractor approved by the Department, in writing who has no conflict of interest or financial gain in the outcome of the testing. The Department may in its discretion, with reasonable notice, perform the review of testing results for certification of a model or individual outdoor hydronic heater.

1. Laboratory Accreditation Requirements. A laboratory shall be accredited:

a. By the U.S. Environmental Protection Agency (EPA) for testing wood-burning residential space heaters in accordance with 40 CFR Part 60, Subpart AAA;

b. By the American National Standards Institute (ANSI) to the International Standards Organization (ISO) Standard ISO/IEC Guide 65 General Requirements for Bodies Operating Product Certification Systems; or

c. By a nationally recognized accreditation body to ISO/IEC 17025, General Requirements for the Competence of Testing and Calibration Laboratories.

i. The nationally recognized accrediting body itself shall be accredited to, and operate under ISO Guide 58 (Calibration and Testing Laboratory Accreditation Systems – General Requirements for Operation and Recognition), and

ii. By a nationally recognized accreditation body to the American Society for Testing and Materials (ASTM) Standard Practice D7036-04; Competence of Air Emission Testing Bodies.

(e) <u>Change in Design Parameter</u>. A model shall require a new certification whenever any change is made in the design that is presumed to affect the particulate emission rate for that model. Changes that are presumed to affect particulate emission rates for models include, but are not limited to:

1. Tolerance changes: any change in the indicated tolerances of any of the following components is presumed to affect particulate emission rates if that change exceeds ± 0.64 cm ($\pm \frac{1}{4}$ ") for any linear dimension and $\pm 5\%$ for any cross-sectional area relating to air introduction systems and catalyst bypass gaps, unless other dimensions and cross-sectional areas are previously approved by the Department;

2. Firebox: dimensions;

3. <u>Air Inductions Systems</u>. cross-sectional area of restrictive air inlets, outlets and location, and method of control;

- 4. Baffles: dimensions and location;
- 5. Refractory/insulation: dimensions and location;
- 6. Catalyst: dimensions and location;
- 7. Catalyst bypass mechanism: dimensions, cross-sectional area, and location;
- 8. Flue gas exit: dimension and location;
- 9. Door and catalyst bypass gaskets: dimension and fit;
- 10. Outer shielding and coverings: dimension and location;

11. Fuel feed system;

12. Forced air combustion system: location and horsepower of blower motors and fan blade size.

(f) <u>Change in Materials</u>. A model shall require a new certification whenever any change is made in the materials that is presumed to affect the particulate emission rate for that model. Any change in the materials used, including but not limited to, the following components is presumed to affect emissions:

- 1. refractory/insulation;
- 2. door and catalyst bypass gaskets;
- 3. for catalyst equipped units change in catalyst make, model or composition;
- 4. heat exchanger;
- 5. heating fluids.

(g) <u>Revocation</u>. Certification of an outdoor hydronic heater may be revoked by the Department for the following reasons, including but not limited to:

1. The outdoor hydronic heater does not meet the applicable particulate emission standard in 310 CMR 7.26(53)(a) or 310 CMR 7.26(53)(b) based on test data from retesting the original unit used for certification testing;

2. A finding that the certification test was not valid;

3. A finding that the unit does not comply with the labeling requirements detailed in 310 CMR 7.26(54)(j);

4. Failure to comply with recordkeeping requirements pursuant to 310 CMR 7.26(54)(l);

5. Physical examination showing that more than 20% of production units inspected are not similar in all material respects to the model used for certification testing;

6. Failure of the manufacturer to conduct a quality assurance program as detailed in 310 CMR 7.26(54)(h); or

7. Repeated field observed opacity violations of residential-size and commercial-size units and a determination by the Department that the model cannot consistently comply.

(h) <u>Quality Assurance Program</u> -310 CMR 7.26(54)(h) shall only be effective if EPA's ETV Program is not the lead quality assurance verifier of outdoor hydronic heater lab certification testing procedures and emissions reporting for model/model line outdoor hydronic heater certifications. The manufacturer or its designee shall conduct a quality assurance program that, at a minimum, includes the following requirements:

1. The manufacturer or authorized representative shall have one in every 150 units produced of a model inspected to determine that the units are within applicable tolerances or to determine if there are any changes in material for all components that affect emissions as listed in 310 CMR 7.26(54)(e) and 310 CMR 7.26(54)(f). A qualified, independent third party contractor or consultant shall conduct the inspection.

2. The manufacturer or authorized representative shall be responsible for ensuring that an emission test is conducted by a qualified, independent third party testing contractor or consultant on a randomly selected unit produced of a model on the following schedule:

If certification test	If yearly production per model is:	
results were:	<500 total production	\geq 500 total production
>70% of the PM	When directed by the	Every 500 units or
emission standard	Department not to exceed	triennially (whichever
	one of every 500 units	is more frequent)
70% or less of the	When directed by the	Every 1,000 units or
PM emission	Department not to exceed	triennially (whichever
standard	one of every 1,000 units	is more frequent)
30% or less of the	Every 2,000 units	Every 2,000 units or
PM emission		annually (whichever is
standard		more frequent)

3. The emission test shall be conducted in conformity with 310 CMR 7.26(54)(c)2.

4. If the manufacturer uses a different material for the firebox, firebox component, or hydronic heating mechanism than the one used for certification testing, the first test shall be performed before 500 units of the modified unit are produced. The manufacturer shall submit an executive summary or if requested by the Department the entire testing results, including but not limited to, the raw data and notes taken by the lab technicians, documenting the results of this emission test to the Department within 45 days of completion of testing.

(i) Notification by Manufacturers.

1. By April 30th each year, and as outdoor hydronic heaters are certified, manufacturers shall provide the following information in writing to any person to whom the manufacturer has distributed, intends to distribute, or actually distributes or sells outdoor hydronic heaters for use in the Commonwealth:

a. A list of all models of outdoor hydronic heaters that it manufactures for use in the Commonwealth; and

b. A list of models that have received certification to meet the particulate matter emission standards as set forth in 310 CMR 7.26(53)(a) and 310 CMR 7.26(53)(b) and the certification requirements as set forth in 310 CMR 7.26(54)(b) for use in the Commonwealth.

2. This information shall be kept by the manufacturer in accordance with 310 CMR 7.26(54)(1).

(j) <u>Labeling Requirements</u>. On and after December 26, 2008, manufacturers of outdoor hydronic heaters shall meet the following labeling requirement for units distributed or sold, offered for sale or leased for use in the Commonwealth:

1. <u>Permanent Label</u>. Every outdoor hydronic heater shall have a permanent label that shall:

a. Be made of a material expected to last the lifetime of the outdoor wood boiler.

b. Be affixed in a readily visible or accessible location.

c. Be affixed in such a manner that it cannot be removed from the outdoor wood boiler without damage to the label.

d. Display the following information on the label:

i. name and address of the manufacturer;

- ii. date of manufacture;
- iii. model name and number;
- iv. serial number;
- v. thermal output rating in Btu/h;
- vi. certified emission rate in heat output expressed as lb/MMBtu
- vii. certified particulate emission rate in grams per hour; and

viii. a statement as to whether the unit is certified to be used year-round or only during the heating season or both.

2. <u>Temporary Label</u>. All units shall have attached to them a temporary label that shall contain the following:

a. A statement indicating the certification status of the model;

b. A graphic representation of the composite particulate matter emission rate as determined in the certification test, or as determined by the Department;

c. A graphic representation of the efficiency of the model;

d. A numerical expression of the heat output range in British thermal units per hour (Btu/hr) rounded to the nearest 100 Btu/hr; and

e. Statements regarding the importance of proper operation and maintenance.

3. The temporary label shall:

a. Not be combined with any other label or information; and

b. Be attached to the unit in such a manner that it can be easily removed by the consumer.

(k) <u>Owner's Manual</u>. On and after December 26, 2008, each outdoor hydronic heater offered for sale or lease for use in the Commonwealth shall be accompanied by an owner's manual that shall be published by the manufacturer and contain all the following information:

1. Proper thermal output capacity for matching with the building's thermal demands;

- 2. Proper installation information;
- 3. Operation and maintenance information;
- 4. Wood or other approved solid fuel loading procedures;
- 5. List of approved solid fuels;
- 6. List of prohibited fuels;
- 7. Recommendations on wood or other approved solid fuel selection;
- 8. Fire starting procedures;
- 9. Proper use of air flow devices, if applicable;
- 10. Ash removal procedures;

11. For catalytic models, information pertaining to maintaining catalyst performance, maintenance procedures, procedures for determining catalyst failure or deterioration, procedures for replacement, and information on warranty rights; and

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

(PAGES 250.72.19 THROUGH 250.72.54 ARE <u>RESERVED</u> FOR FUTURE USE.)

12. Persons operating this hydronic heater are responsible for operation of the hydronic heater so as not to cause a condition of air pollution as defined in 310 CMR 7.01(1).

(l) <u>Recordkeeping</u>. Every manufacturer of an outdoor hydronic heater shall keep records demonstrating compliance 310 CMR 7.26(54). These records shall be kept and maintained by the manufacturer. These records shall be kept on site for a period not less than five years and shall be made available to the Department within 30 days of a written request.
 (m) Enforcement. A manufacturer of an outdoor hydronic heater shall comply with all

(m) <u>Enforcement</u>. A manufacturer of an outdoor hydronic heater shall comply with all applicable regulations, and state and local laws, including but not limited to local bylaws, regulations and ordinances. 310 CMR 7.26(54)(i) through (l) are subject to the enforcement provisions specified at 310 CMR 7.52.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

7.29: Emissions Standards for Power Plants

(1) <u>Purpose and Scope</u>. The purpose of 310 CMR 7.29 is to control emissions of nitrogen oxides (NO_x), sulfur dioxide (SO₂), mercury (Hg), carbon monoxide (CO), carbon dioxide (CO₂) and fine particulate matter (PM 2.5) (together "pollutants") from affected facilities in Massachusetts. 310 CMR 7.29 accomplishes this by establishing output-based emission rates for NO_x, SO₂ and CO₂ and establishing a cap on CO₂ and Hg emissions from affected facilities. CO₂ emissions standards set forth in 310 CMR 7.29(5)(a)5.a. and b. shall not apply to emissions that occur after December 31, 2008.

(2) <u>Definitions</u>. The definitions in 310 CMR 7.00 apply to 310 CMR 7.29. However, the terms below have the following meanings when they appear in 310 CMR 7.29. If a term is defined both in 310 CMR 7.00 and in 310 CMR 7.29(2), the definition in 310 CMR 7.29(2) applies for the purpose of 310 CMR 7.29.

<u>Actual Emissions</u> for a facility means that facility's total annual emissions expressed in tons for each pollutant, as measured and reported in accordance with 310 CMR 7.29(7).

<u>Affected Facility</u> means a facility which emitted greater than 500 tons of SO_2 and 500 tons of NO_x during any of the calendar years 1997, 1998 or 1999 and which includes a unit which is a fossil fuel fired boiler or indirect heat exchanger that:

- (a) is regulated by 40 CFR Part 72 (the Federal Acid Rain Program);
- (b) serves a generator with a nameplate capacity of 100 MW or more;
- (c) was permitted prior to August 7, 1977; and

(d) had not subsequently received a Plan Approval pursuant to 310 CMR 7.00: *Appendix* A or a Permit pursuant to the regulations for Prevention of Significant Deterioration, 40 CFR Part 52, prior to October 31, 1998.

<u>Alternate Hg Designated Representative</u> means, for a coal-fired affected facility and each coal-fired unit at the facility, the natural person who is authorized by the owners and operators of the facility and all such units at the facility in accordance with 40 CFR 60.4110 through 60.4114, to act on behalf of the Hg designated representative in matters pertaining to mercury monitoring, recordkeeping, reporting and compliance.

<u>Alternative Monitoring System</u> means a system or a component of a system designed to provide direct or indirect data of mass emissions per time period, pollutant concentrations, or volumetric flow, that is demonstrated to the Administrator as having the same precision, reliability, accessibility, and timeliness as the data provided by a certified CEMS or certified CEMS component in accordance with 40 CFR Part 75.

<u>Ash</u> means bottom ash, fly ash or ash generated by an ash reduction process derived from combustion of fossil fuels, carbon or other substances.

<u>Automated Data Acquisition and Handling System</u> or <u>DAHS</u> means that component of the mercury continuous emission monitoring system (CEMS), or other emissions monitoring system approved for use under 40 CFR 60.4170 though 60.4176, designed to interpret and convert individual output signals from pollutant concentration monitors, flow monitors, diluent gas monitors, and other component parts of the monitoring system to produce a continuous record of the measured parameters in the measurement units required by 40 CFR 60.4170 through 60.4176.

<u>Block Hourly Average</u> means the average of all valid emission concentrations when the affected unit is operating, measured over a one-hour period of time from the beginning of an hour to the beginning of the next hour.

<u>Calendar Quarter</u> means any consecutive three-month period (nonoverlapping) beginning January 1st, April 1st, July 1st or October 1st.

Calendar Year means any period beginning January 1st and ending December 31st.

<u>Continuous Emission Monitoring System or CEMS</u> means the equipment required by 40 CFR Part 75 used to sample, analyze, measure, and provide, by means of readings recorded at least once every 15 minutes (using an automated data acquisition and handling system (DAHS)), a permanent record of SO₂, NO_x or CO₂ emissions or stack gas volumetric flow rate.

<u>Historical Actual Emissions</u> or <u>Historical Actual Emission Rate</u> means the average annual emissions or output-based emission rate averaged over 1997, 1998 and 1999. A different three-year period within the past five years may be used if requested by the owner of an affected facility, and if the Department determines that period is more representative of historical actual emissions.

<u>Mercury (Hg) Designated Representative</u> means, for a coal-fired affected facility and each coalfired unit at the facility, the natural person who is authorized by the owners and operators of the facility and all such units at the facility, in accordance with 40 CFR 60.4110 through 60.4114, to represent and legally bind each owner and operator in matters pertaining to mercury monitoring, recordkeeping, reporting and compliance.

<u>Mercury Continuous Emission Monitoring System</u> or <u>Mercury CEMS</u> means the equipment required under 40 CFR 60.4170 through 60.4176 to sample, analyze, measure, and provide, by means of readings recorded at least once every 15 minutes (using an automated data acquisition and handling system (DAHS)), a permanent record of Hg emissions, stack gas volumetric flow rate, stack gas moisture content, and oxygen or carbon dioxide concentration (as applicable), in a manner consistent with 40 CFR Part 75. The following systems are the principal types of CEMS required under 40 CFR 60.4170 through 60.4176:

(a) A flow monitoring system, consisting of a stack flow rate monitor and an automated data acquisition and handling system and providing a permanent, continuous record of stack gas volumetric flow rate, in units of standard cubic feet per hour (SCFH);

(b) A Hg concentration monitoring system, consisting of a Hg pollutant concentration monitor and an automated data acquisition and handling system and providing a permanent, continuous record of Hg emissions in units of micrograms per dry standard cubic meter (μ g/dscm);

(c) A moisture monitoring system, as defined in 40 CFR 75.11(b)(2) and providing a permanent, continuous record of the stack gas moisture content, in percent H_2O .

(d) A carbon dioxide monitoring system, consisting of a CO_2 concentration monitor (or an oxygen monitor plus suitable mathematical equations from which the CO_2 concentration is derived) and an automated data acquisition and handling system and providing a permanent, continuous record of CO_2 emissions, in percent CO_2 ; and

(e) An oxygen monitoring system, consisting of an O_2 concentration monitor and an automated data acquisition and handling system and providing a permanent, continuous record of O_2 , in percent O_2 .

<u>Mercury Monitoring System</u> means a mercury continuous emission monitoring system, an alternative monitoring system, or a sorbent trap monitoring system under 40 CFR Part 60 or 75 but does not mean the low mass emissions excepted monitoring methodology in 40 CFR 75.81(d).

<u>MWh</u> means megawatt-hours of net electrical output.

<u>Net Electrical Output of a Facility</u> means the total actual net electrical output of the facility used by the New England Independent System Operator to determine settlement resources of energy market participants.

<u>Output-based Emission Rate</u> means an emission rate for any pollutant, expressed in terms of actual emissions in pounds over a specified time period per megawatt-hour of net electrical output produced over the same time period.

<u>Output-based Emission Standard</u> means the emission standards for each applicable pollutant, expressed in terms of pounds of pollutant emitted per megawatt-hour of net electrical output produced, as set forth in 310 CMR 7.29(5).

Repowering means:

(a) Qualifying Repowering Technology as defined by 40 CFR Part 72 or,

(b) The replacement of the heat or power from a unit subject to 40 CFR Part 72 at an affected facility with either a new combustion unit, regardless of the fuel used, or the purchase of heat or power from the owner of a new combustion unit, regardless of the fuel used, provided the replacement unit:

1. (Regardless of owner) is on the same, or contiguous property as the replaced unit; 2. Has a maximum heat output rate or power output rate equal to or greater than the maximum heat output rate or power output rate of the replaced unit; and, the replaced unit is physically removed from the affected facility, or the heat or power available from the replaced unit is limited by limiting hours of operation, maximum heat input or some other method approved by the Department; and,

3. Incorporates technology capable of controlling multiple combustion pollutants simultaneously with improved fuel, boiler or generation efficiency and significantly greater waste reduction relative to the performance of technology in widespread commercial use as determined by the Department.

<u>Rolling</u> with respect to an average means the calculation of an average by dropping the earliest month or calendar quarter value and incorporating the latest month or calendar quarter value for the period over which an average is calculated.

Sorbent Trap Monitoring System means the equipment required by 40 CFR Part 75 for the continuous monitoring of mercury emissions, using paired sorbent traps containing iodinized charcoal (IC) or other suitable reagent(s). This excepted monitoring system consists of a probe, the paired sorbent traps, a heated umbilical line, moisture removal components, an airtight sample pump, a dry gas meter, and an automated data acquisition and handling system. The monitoring system samples the stack gas at a rate proportional to the stack gas volumetric flow rate. The sampling is a batch process. Using the sample volume measured by the dry gas meter and the results of the analyses of the sorbent traps, the average mercury concentration in the stack gas for the sampling period is determined, in units of micrograms per dry standard cubic meter (μ g/dscm). Mercury mass emissions for each hour in the sampling period are calculated using the average mercury concentration for that period, in conjunction with contemporaneous hourly measurements of the stack gas flow rate, corrected for the stack gas moisture content.

<u>Total Mercury</u> means the sum of particulate-bound and vapor-phase (elemental and oxidized) mercury in combustion gases or emitted to the atmosphere.

(3) <u>Applicability</u>. The provisions of 310 CMR 7.29 apply to any person who owns, leases, operates or controls an affected facility.

(4) <u>General Provisions</u>.

(a) Each affected facility shall comply with the applicable emission standards established in 310 CMR 7.29(5).

(b) Any person subject to 310 CMR 7.29 shall comply with all other applicable regulations, including, but not limited to: 310 CMR 7.02, 310 CMR 7.19, 310 CMR 7.34, 310 CMR 7.70, 310 CMR 7.00: *Appendix A*, and 310 CMR 7.00: *Appendix C*. If provisions or requirements from any other regulation or permit conflict with a provision of 310 CMR 7.29, the more stringent of the provisions will apply unless otherwise determined by the Department in the affected facility's operating permit. Regardless of the Department's determination in the operating permit, any person subject to 310 CMR 7.29 shall comply with all applicable federal requirements.

(c) In the case of imminent threat to the reliability of New England's electricity system, the Department may promulgate an emergency regulation, as per M.G.L. c. 30A, §§ 2 and 3, to mitigate the emergency situation.

(5) <u>Emission Requirements</u>.

- (a) Emission Standards for Affected Facilities.
 - 1. Nitrogen Oxides Emission Standards.

a. Effective on the applicable date in 310 CMR 7.29(6)(c), emissions of nitrogen oxides shall not exceed an emission rate of 1.5 lbs./MWh calculated over any consecutive 12 month period, recalculated monthly; and,

b. Effective on the applicable date in 310 CMR 7.29(6)(c), emissions of nitrogen oxides shall not exceed an emission rate of 3.0 lbs./MWh calculated over any individual calendar month.

2. Sulfur Dioxide Emission Standards.

a. Effective on the applicable date in 310 CMR 7.29(6)(c), emissions of sulfur dioxide shall not exceed an emission rate of 6.0 lbs./MWh calculated over any consecutive 12 month period, recalculated monthly.

- b. Effective on the applicable date in 310 CMR 7.29(6)(c),
 - i. Emissions of sulfur dioxide shall not exceed an emission rate of 3.0 lbs./MWh calculated over any consecutive 12 month period, recalculated monthly; and,
 - ii. Emissions of sulfur dioxide shall not exceed an emission rate of 6.0 lbs./MWh calculated over any individual calendar month.
- 3. <u>Mercury Emissions</u>.

a. By December 1, 2002, the Department will complete an evaluation of the technological and economic feasibility of controlling and eliminating emissions of mercury from the combustion of solid fossil fuel in Massachusetts in accordance with the Mercury Action Plan of the Conference of New England Governors and Eastern Canadian Premiers.

b. Deleted.

c. The Emission Control Plan submitted to the Department under 310 CMR 7.29(6) shall demonstrate, and any person who owns, leases, operates or controls an affected facility shall ensure, that beginning at the time of the affected facility's earliest applicable compliance date in 310 CMR 7.29(6)(c), or at the time of the facility's earliest applicable Phase 1 NOx and SO₂ compliance date under an administrative order existing prior to June 4, 2004, whichever is later, total annual mercury emissions from combustion of solid fuels in units subject to 40 CFR Part 72 located at an affected facility or from re-burn of ash in Massachusetts will not exceed the average annual emissions calculated using the results of the stack tests required in 310 CMR 7.29(5)(a)3.d.ii.. The average annual emissions calculated using the results of the stack tests required in 310 CMR 7.29(5)(a)3.d.ii. equal the average measured pounds of mercury emitted per million Btu consumed multiplied by the heat input in million Btu averaged over 1997, 1998 and 1999. A different threecalendar-year period within the five years prior to May 11, 2001 may be used if requested by the owner of an affected facility, and if the Department determines that the different period is more representative of historical actual heat input. Total annual mercury emissions equal the total emissions from:

i. combustion of solid fossil fuel in units subject to 40 CFR Part 72 located at an affected facility, determined using emissions testing at least every other calendar quarter from October 1, 2006 until a certified mercury monitoring system is used to demonstrate compliance with the standards in 310 CMR 7.29(5)(a)3.e. or f., and using a certified mercury monitoring system thereafter, and

ii. re-burn of ash, where such ash was produced by the combustion of fossil fuel or ash at any affected facility. When ash is re-burned at an affected facility, the associated mercury emissions shall be attributed to the affected facility at which the ash is re-burned. When ash produced by an affected facility is used in Massachusetts as a cement kiln fuel, as an asphalt filler, or in other high temperature processes that volatilize mercury,

(i) the mercury content of the utilized ash shall be measured weekly using a method acceptable to the Department,

(ii) all of the mercury in the utilized ash shall be assumed to be emitted, unless it can be demonstrated with data acceptable to the Department that a lesser amount of mercury is emitted,

(iii) the associated mercury emissions shall be attributed to the affected facility from which the ash is shipped to the cement kiln, asphalt batching plant or other high temperature processing location, and

(iv) a proposal shall be submitted for Department approval at least 45 days prior to such use, or at least 45 days prior to October 1, 2006, whichever is later, detailing the proposed measurement methods to be used to comply with 7.29(5)(a)3.c.ii.(i) and (ii).

d. Fuel Sampling and Stack Testing.

i. Beginning on May 11, 2001 until August 1, 2002, any person who owns, leases, operates or controls an affected facility which combusts solid fossil fuel in a Part 72 unit shall test each shipment of coal at the time received. The test shall be conducted by a method approved by the Department, and report the mercury and chlorine content of the coal. The results of each interim fuel testing shall be reported to the Department with the results of the next stack test as required in 310 CMR 7.29(5)(a)3.d.ii.

ii. Any person who owns, leases, operates or controls an affected facility which combusts solid fossil fuel shall perform stack tests for mercury. The stack tests shall:

- Be conducted using a DEP-approved test method detailed in a test protocol submitted to the Department at least 45 days before commencement of testing, and notify the Department of the specific date the test will be conducted at least 30 days prior to conducting the test;

- Test the mercury concentrations and species before all add-on air pollution control equipment (inlet) and after (outlet);

- Be conducted as follows: One test shall be performed before August 1, 2001,

A second test shall be performed after December 1, 2001 but not later than February 1, 2002,

A third test shall be performed after June 1, 2002 but not later than August 1, 2002

- The results of each stack test shall be reported to the Department within 30 days after conducting each stack test.

iii. Until a certified mercury monitoring system is installed, stack tests for mercury shall consist at a minimum of three runs at full load on each unit firing solid fossil fuel or ash according to a testing protocol acceptable to the Department. Unless a mercury monitoring system that measures particulate-bound mercury, either combined with or separate from the measurement of vapor-phase mercury, is installed at a unit for purposes of determining compliance with the standards in 310 CMR 7.29(5)(a)3.c., e. and f., stack tests for mercury, and certification tests and Relative Accuracy Test Audits for mercury monitoring systems, shall determine total and particulate-bound mercury. Relative accuracy shall be calculated as specified in 40 CFR Part 75. The results of each stack test shall be reported to the Department within 45 days after conducting each stack test.

e. Effective on January 1, 2008, or 15 months after the facility's earliest applicable Phase 1 NO_x and SO_2 compliance date under an administrative order existing prior to June 4, 2004, whichever is later, any person who owns, leases, operates or controls an affected facility which combusts solid fossil fuel or ash shall comply with at least one of the following mercury emissions standards:

i. a facility average total mercury removal efficiency of 85% or greater for those units combusting solid fossil fuel or ash. The mercury removal efficiency based on a mercury monitoring system shall be calculated based on the average historic mercury inlet emissions determined under 310 CMR 7.29(5)(a)3.d.ii. using the methodology approved by the Department in the monitoring plan required under 310 CMR 7.29(5)(a)3.g. and shall be calculated on a rolling 12 month basis; or ii. a facility average total mercury emissions rate of 0.0075 lbs./GWh or less for those units combusting solid fossil fuel or ash. The mercury emissions rate based on a mercury monitoring system shall be calculated using the mercury mass emissions methodology specified in 40 CFR Part 75 and approved by the Department in the monitoring plan required under 310 CMR 7.29(5)(a)3.g. and shall be calculated on a rolling 12 month basis.

iii. Notwithstanding 310 CMR 7.29(5)(a)3.e.i. and ii., any person who owns, leases, operates or controls an affected unit which combusts solid fossil fuel or ash and has an enforceable commitment with the Department to terminate operations by January 1, 2010, may comply with 310 CMR 7.29 (5)(a)3.e.i. or ii. through January 1, 2010 by complying with an approved 310 CMR 7.29 emission control plan modification achieving early or off-site reductions. To comply with the foregoing, such person shall propose under 310 CMR 7.29(6)(h)1. to amend the approved emission control plan. Such early or off-site reductions shall be in an amount of at least the equivalent mass of mercury reductions required under 310 CMR 7.29 (5)(a)3.e.i. or ii. Any early reductions shall be accrued on-site at the stack prior to the compliance date effective under 310 CMR 7.29(5)(a)3.e.Any off-site mercury air emission reductions shall be accrued on at least a one pound reduced for one pound credited basis from facilities located in the same DEP Region as the affected unit. Any other off-site mercury reductions shall be accrued on at least a ten pounds reduced for one pound credited basis from facilities located in the same DEP Region as the affected unit.

f. Effective on October 1, 2012, any person who owns, leases, operates or controls an affected facility which combusts solid fossil fuel or ash shall comply with at least one of the following mercury emissions standards:

i. a facility average total mercury removal efficiency of 95% or greater for those units combusting solid fossil fuel or ash. The mercury removal efficiency shall be calculated based on a mercury monitoring system as provided in 310 CMR 7.29(5)(a)3.e.i.; or

ii. an average total mercury emission rate of 0.0025 lbs./GWh or less for those units combusting solid fossil fuel or ash. The mercury emission rate shall be calculated based on a mercury monitoring system as provided in 310 CMR 7.29(5)(a)3.e.ii.

g. Mercury Monitoring Systems.

i. By January 1, 2008, any person who owns, leases, operates or controls an affected facility which combusts solid fossil fuel or ash shall install, certify, and operate a mercury monitoring system in accordance with 40 CFR Part 75 and 40 CFR 60.4106(b)(1) to measure mercury stack emissions from each solid fossil fuel- or ash-fired unit at a facility subject to 310 CMR 7.29. Any person required to install a mercury monitoring system shall submit a monitoring plan for Department approval and shall propose to amend the approved emission control plan in accordance with 310 CMR 7.29(6)(n)1. to incorporate the mercury monitoring approach at least 45 days prior to the commencement of initial certification testing.

ii. Affected facilities must include in their monitoring plan a proposed methodology to demonstrate compliance with the emission standards in 310 CMR 7.29(5)(a)3.e. and f.

iii. If a mercury monitoring system capable of measuring only vapor-phase mercury is installed at a unit for purposes of determining compliance with the standards in 310 CMR 7.29(5)(a)3.c., e. and f., total mercury shall be determined by taking into account the average particulate-bound mercury measured during the most recent stack test on that unit in combination with the total vapor-phase mercury measured by the mercury monitoring system until such time as a mercury monitoring system to measure particulate-bound mercury is installed and operational at a unit.

iv. (i) Notwithstanding 310 CMR 7.29(5)(a)3.g.i., a unit with an enforceable commitment to terminate operations by January 1, 2010 and that qualifies to use the mercury low mass emissions excepted monitoring methodology under 40 CFR 75.81(b) may choose between quarterly stack testing and a mercury monitoring system to document mercury emissions in the period from January 1, 2008 until the time such unit terminates operation or January 1, 2009, whichever is earlier.

(ii) Notwithstanding 310 CMR 7.29(5)(a)3.g.i., a unit with an enforceable commitment to terminate operations by January 1, 2010 and that qualifies to use the mercury low mass emissions excepted monitoring methodology under 40 CFR 75.81(b) may choose between the low mass emissions excepted monitoring methodology with retests conducted at least every calendar quarter and a mercury monitoring system to document mercury emissions in the period from January 1, 2009 until the time such unit terminates operation or January 1, 2010, whichever is earlier; however, if such a unit must install a mercury monitoring system to meet a federal requirement, then the mercury monitoring system shall document mercury emissions instead of stack testing.

- 4. <u>Carbon Monoxide Emission Standards</u>. (Reserved.)
- 5. Carbon Dioxide Emission Standards.

a. By September 1, 2009, any person who owns, leases, operates or controls an affected facility shall demonstrate that emissions of carbon dioxide from the affected facility in calendar years 2006, 2007, and 2008, expressed in tons, from Part 72 units located at the affected facility did not exceed historical actual emissions. If the Department has received a technically complete plan approval application under 310 CMR 7.02 for a new or repowered electric generating unit subject to 40 CFR Part 72 at an affected facility prior to May 11, 2001, then the emissions from the new or repowered unit may be included in the calculation of historical actual emissions. The calculation of historical actual emissions which includes emissions from a new or repowered unit shall not include emissions from any unit shutdown or removed from operation at the affected facility that is included in the technically complete plan approval application pursuant to 310 CMR 7.02. These emissions standards shall not apply to the emissions of CO₂ that occur after December 31, 2008.

b. By September 1, 2009, any person who owns, leases, operates or controls an affected facility shall demonstrate to the Department that the average emission rate of carbon dioxide from Part 72 units located at the affected facility did not exceed an emission rate of 1800 lbs./MWh in calendar year 2008. The average emission rate is calculated by dividing the total number of pounds of CO_2 emitted by the affected facility for the same calendar year. These emissions standards shall not apply to the emissions of CO_2 that occur after December 31, 2008.

c. Compliance with 310 CMR 7.29(5)(a)5.a. may be demonstrated by using emission reductions, avoided emissions or sequestered emissions verified under 310 CMR 7.00: *Appendix B*(7) to offset emissions above the historical actual emissions, provided the Department determines such emission reductions, avoided emissions or sequestered emissions are real, additional, verifiable, permanent, and enforceable, as defined in 310 CMR 7.00: *Appendix B*(7) or by using the GHG Expendable Trust under the conditions specified in 310 CMR 7.00: *Appendix B*(7)(d)5.

d. Compliance with 310 CMR 7.29(5)(a)5.b. may be demonstrated by using emission reductions, avoided emissions or sequestered emissions verified under 310 CMR 7.00: *Appendix B*(7) to offset excess emissions, provided the Department determines such emission reductions, avoided emissions or sequestered emissions are real, additional, verifiable, permanent, and enforceable as defined in 310 CMR 7.00: *Appendix B*(7) or by using the GHG Expendable Trust under the conditions specified in 310 CMR 7.00: *Appendix B*(7)(d)5. Excess emissions are any emissions above the net electrical output of the facility times 1800 lbs./MWh.

6. <u>Fine Particulate Matter Emissions Standards</u>. (Reserved.)

(b) Compliance with the emission standards in 310 CMR 7.29(5)(a), may be demonstrated by any combination of the following:

1. Dividing the total emissions of each pollutant by the total net electrical output from all electric generating units subject to 40 CFR Part 72 located at the affected facility as of May 11, 2001 or repowered at the affected facility after May 11, 2001. For demonstrating compliance with the mercury emissions standards in 310 CMR 7.29(5)(a)3, the person who owns, leases, operates or controls an affected facility shall include in the calculation only units that fire solid fossil fuel or ash, or that repowered a unit that fired solid fossil fuel or ash.

2. For the SO₂ emission standards in 310 CMR 7.29(5)(a)2., using SO₂ reductions at the affected facility below historical actual emissions which were made after May 11, 2001, and prior to the earliest applicable date set in 310 CMR 7.29(6). The total amount of tons produced through early reductions each year is calculated by multiplying the facility's net electrical output for that year times (the historical actual emission rate minus that year's actual emission rate in lbs./MWh) divided by 2000. The amount of early reductions, with supporting information, shall be provided to the Department prior to use for compliance with 310 CMR 7.29(5)(a)2.a.. Each ton of reduction may be used, once, to offset one ton of excess emissions from the facility. Excess emissions are any emissions above a level equal to the net electrical output of the facility times the applicable emission standard in 310 CMR 7.29(5)(a)2.

3. For the emission standards in 310 CMR 7.29(5)(a)2.b., using SO_2 allowances created pursuant to 40 CFR Part 72 (the Federal Acid Rain Program). Three allowances shall be used to offset each ton of excess emissions above the emission standard. Such SO_2 allowances shall be in addition to those allowances used by the facility to comply with the requirements of 40 CFR part 72, and shall be transferred to the Department and retired for the benefit of the environment.

- (6) <u>Emission Control Plans, Compliance Paths and Compliance Dates</u>.
 - (a) <u>Emission Control Plan Deadline and General Provisions</u>.

1. Any person who owns, leases, operates or controls an affected facility shall submit an emission control plan for Department approval under 310 CMR 7.29 on or before January 1, 2002 regardless of the compliance path chosen.

2. Any person who owns, leases, operates or controls an affected facility who is required to submit an application for a plan approval under 310 CMR 7.02 shall submit an application for plan approval pursuant to 310 CMR 7.02 on or before January 1, 2003. 3. Any person who owns, leases, operates, or controls an affected facility which installs mercury control equipment that is not already contained in an emission control plan approval under 310 CMR 7.29 shall submit a mercury emissions control plan amendment application under 310 CMR 7.29(6)(h) at least 90 days before intended installation and may not install such equipment until receiving approval of the revision.

4. Any person who owns, leases, operates or controls an affected facility which combusts solid fossil fuel shall by December 4, 2004, propose under 310 CMR 7.29(6)(h)1. to amend the approved emission control plan to incorporate the mercury emission cap established in 310 CMR 7.29(5)(a)3.c. Notwithstanding 310 CMR 7.29(5)(a)3.c., any facility with average annual emissions of less than five pounds, calculated using the results of the stack tests required in 310 CMR 7.29(5)(a)3.d.ii., may propose and be approved to use early or off-site reductions to demonstrate compliance with 310 CMR 7.29(5)(a)3.c. through September 30, 2012. Any early reductions shall be accrued on-site at the stack prior to the compliance date effective under 310 CMR 7.29(5)(a)3.c. Any off-site mercury air emission reductions shall be accrued on at least a one pound reduced for one pound credited basis from facilities located in the same DEP Region as the affected unit. Any other off-site mercury reductions shall be accrued on at least a ten pounds reduced for one pound credited basis from facilities located in the same DEP Region as the affected unit.

(b) <u>Emission Control Plan Contents</u>. The emission control plan submitted pursuant to 310 CMR 7.29(6) shall include, but is not limited to, the following:

1. The name of the company and the affected facility.

2. A list of units at the affected facility that will be used to demonstrate compliance with 310 CMR 7.29(5), including which units will be included in calculating historical actual emissions.

3. The name of the company contact responsible for compliance with 310 CMR 7.29.

4. A statement that the affected facility has a monitoring plan in place which meets the requirements of 40 CFR Part 72. Any modifications to an affected facility's monitoring methodology approved pursuant to the requirements of 40 CFR 72 are hereby incorporated into the approved emission control plan under 310 CMR 7.29.

5. Signature of the company contact responsible for compliance with 310 CMR 7.29.

6. Identification of the affected facility, including plant name and the ORIS or facility code assigned to the facility by the U.S. Energy Information Administration, if applicable.

7. A description of how the affected facility will comply with the emission standards contained in 310 CMR 7.29(5), by the applicable compliance dates contained in 310 CMR 7.29(6)(c) including, but not limited to, the control equipment the affected facility intends to use.

8. A proposed schedule with interim milestones for each activity leading to compliance with the requirements in 310 CMR 7.29(5). Such information shall include, but not be limited to, sufficient information to allow DEP to consult with the Division of Energy Resources and the Department of Telecommunications and Energy, to address any concerns with potential impacts to the reliability of the New England power system.

9. A description of how emission reduction measures implemented to achieve reductions in one pollutant will optimize reductions in other pollutants.

10. A description of the sampling and testing protocol(s) meeting the requirements of 310 CMR 7.29(5)(a)3.d.

11. Any other information requested by the Department.

(c) <u>Compliance Paths and Compliance Dates</u>.

1. Any person who owns, leases, operates or controls an affected facility who does not choose to comply with the emissions standards in 310 CMR 7.29(5) by repowering a unit subject to 40 CFR Part 72 at the affected facility, or is not required to receive a plan approval pursuant to 310 CMR 7.02 for construction, substantial reconstruction or alteration of a unit at the affected facility subject to 40 CFR Part 72 for the purpose of compliance with 310 CMR 7.29, shall begin to comply with the emission standards in 310 CMR 7.29(5) by the following dates:

a. For the emission standards in 310 CMR 7.29(5)(a)1.a. and (5)(a)2.a., October 1, 2004; and

b. For the emission standards in 310 CMR 7.29(5)(a)1.b., and (5)(a)2.b., October 1, 2006.

2. Any person who owns, leases, operates or controls an affected facility who chooses to comply with the emissions standards in 310 CMR 7.29(5) by repowering at least one unit at the affected facility subject to 40 CFR Part 72, or is required to receive a plan approval pursuant to 310 CMR 7.02 for construction, substantial reconstruction or alteration of a unit at the affected facility subject to 40 CFR Part 72 for the purpose of compliance with 310 CMR 7.29, and submits, on or before January 1, 2003, an administratively complete application pursuant to 310 CMR 7.02, shall begin to comply with the emission standards in 310 CMR 7.29(5) by the following dates:

a. For the emissions standards contained in 310 CMR 7.29(5)(a)1.a. and (5)(a)2.a., October 1, 2006; and

b. For the emissions standards contained in 310 CMR 7.29(5)(a)1.b. and (5)(a)2.b, October 1, 2008.

3. If an affected facility has units with different applicable compliance dates for a particular standard, the later compliance date applies to all units at the affected facility.

(d) Interaction with 310 CMR 7.02. A plan approval under 310 CMR 7.02(1) may be required for construction, substantial reconstruction or alteration of a unit at an affected facility to comply with 310 CMR 7.29. If such construction, substantial reconstruction or alteration to the facility triggers any applicable section under 310 CMR 7.02(4)(a) and 310 CMR 7.02(5)(a), a plan approval under 310 CMR 7.02 is required. If a plan approval is required under 310 CMR 7.02, then upon the Department's issuance of the plan approval, the Department will modify the affected facility's emission control plan pursuant to 310 CMR 7.29(6)(g).

(e) <u>Public Comment</u>. For each ECP application submitted pursuant to 310 CMR 7.29(6), the Department shall:

1. Provide a 30-day period for submittal of public comment;

2. Post on a public website identified by the Department (which may be the Department's own website), for the duration of the public comment period, the following:

a. Notice of availability of the Department's proposed decision to approve or deny the ECP application and information on how to submit public comment;

b. The Department's proposed decision to approve or deny the ECP application; and

- c. Information on how to access the administrative record for the Department's proposed decision to approve or deny the ECP application.
- 3. Send a copy of the notice required under 310 CMR 7.29(6)(e)2.a. to EPA.
- (f) Approval of the Emission Control Plan.

1. After the close of the public comment period, and consideration of any public comments, the Department shall issue a disapproval of the emission control plan, a final approval of the ECP, or a final approval of the ECP with conditions, based on whether the ECP as submitted meets the requirements of 310 CMR 7.29.

2. Upon final approval of an ECP, any person who owns, leases operates or controls an affected facility shall implement and comply with the approved ECP.

NON-TEXT PAGE

7.29: continued

(g) <u>Modification to an Affected Facility's Operating Permit</u>. For any person who owns, leases, operates or controls an affected facility's operating permit, will be modified upon approval of the ECP in accordance with the procedures in 310 CMR 7.00: *Appendix C*(8). No additional application fee is necessary to modify the operating permit at the same time the ECP is approved.

(h) Modifications to an Affected Facility's Emission Control Plan.

1. Any person subject to 310 CMR 7.29 may propose amendments to the approved ECP. If the Department proposes to approve such amendments, or approve such amendments with conditions, then the Department shall:

a. Provide a 30-day period for submittal of public comment;

b. Post on a public website identified by the Department (which may be the Department's own website), for the duration of the public comment period, the following:

i. Notice of availability of the Department's proposed decision to approve or deny the ECP application and information on how to submit public comment;

ii. The Department's proposed decision to approve or deny the ECP application; and

iii. Information on how to access the administrative record for the Department's proposed decision to approve or deny the ECP application.

c. Send a copy of the notice required under 310 CMR 7.29(6)(h)1.b.i. to EPA.

Modifications to an affected facility's monitoring system approved pursuant to the requirements of 40 CFR Part 72 are not subject to such public comment prior to approval.

2. For the purposes of evaluating system performance, testing new technology or control technologies, diagnostic testing, or other related activities that are anticipated to reduce air pollution or advance the state-of-the-art technology for controlling facility mercury emissions, the Department may issue an ECP approval in the form of a limited amendment to the ECP for a limited period of time for the purpose of achieving compliance with the requirements of 310 CMR 7.29(5)(a)3.e. and f. The Department approval will detail the duration of the time period. The Department shall post a notice of public comment on the draft approval in accordance with the requirements of 310 CMR 7.29(6)(e)2. and 3. The Department shall provide a ten day public comment period following publication of the notice, and may hold a public hearing.

(7) Reporting, Compliance Certification, and Recordkeeping.

(a) By January 30 of the year following the earliest applicable compliance date for the affected facility under 310 CMR 7.29(6)(c), and January 30 of each calendar year thereafter, the company representative responsible for compliance at each affected facility shall submit a report to the Department demonstrating compliance with the emission standards contained in 310 CMR 7.29(5)(a) and in an approved emission control plan. The report shall demonstrate compliance with any applicable monthly emission rate for each month of the previous calendar year, and with any applicable 12-month emission rate for each of the 12 previous consecutive 12-month periods. For the mercury standards at 310 CMR 7.29(5)(a)3.c., the compliance reports due January 30, 2007 and 2008 shall include the quarterly emissions for each quarter beginning October 1, 2006. For the mercury standards at 310 CMR 7.29(5)(a)3.c., e., and f., the compliance report due January 30, 2009 and each report thereafter shall demonstrate compliance with any applicable 12-month standard for the previous calendar year and with any applicable 12-month standard for each of the 12 previous calendar year and with any applicable 12-month standard for each of the 12 previous calendar year and with any applicable 12-month standard for each of the 12 previous calendar year and with any applicable 12-month standard for each of the 12 previous calendar year and with any applicable 12-month standard for each of the 12 previous calendar year and with any applicable 12-month standard for each of the 12 previous consecutive 12-month periods.

(b) The compliance report shall contain the following:

1. Actual emissions for each pollutant, expressed in tons for SO_2 , CO_2 , and NO_x , for each of the preceding 12 months and expressed in thousandths of ounces for mercury, for each of the preceding four calendar quarters beginning October 1, 2006 and preceding 12 months beginning January 1, 2008. Actual emissions shall be provided for individual units and as a facility total for all units included in the calculation demonstrating compliance. Actual emissions provided under 310 CMR 7.29 shall be reported in accordance with:

a. 40 CFR Part 75 for SO_2 , CO_2 , and NO_x , and, no later than January 1, 2009, for mercury;

7.29: continued

b. for the standards at 310 CMR 7.29(5)(a)3.c.i. based on stack tests, by calculating the thousands of ounces of mercury from:

i. the average measured pounds of mercury emitted per million Btu consumed for the calendar year multiplied by

ii. the heat input determined under 40 CFR Part 75 for the calendar year. Affected facilities may choose to subtract the heat input attributable to combustion of fuels other than solid-fossil fuel and ash if such heat input is determined using the procedures of 40 CFR Part 75 Appendix D.

c. for the standards at 310 CMR 7.29(5)(a)3.c.ii, by assuming all of the mercury in the utilized ash is emitted, unless a lesser amount of mercury has been approved under 310 CMR 7.29(5)(a)3.c.ii.(iv).

d. Any particulate-bound mercury accounted for under the provisions of 310 CMR 7.29(5)(a)3.g.ii. shall be calculated from:

i. the most recent average measured pounds of particulate mercury emitted per million Btu consumed multiplied by

ii. the heat input determined under 40 CFR Part 75 for each calendar month. Affected facilities may choose to subtract the heat input attributable to combustion of fuels other than solid-fossil fuel and ash if such heat input is determined using the procedures of 40 CFR Part 75 Appendix D.

2. Actual net electrical output for each of the preceding 12 months, expressed in megawatt-hours. Actual net electrical output shall be provided for individual units and as a facility total for all units included in the calculation demonstrating compliance.

3. The resulting output-based emission rates for each of the preceding 12 months, and each of the 12 consecutive rolling month time periods, expressed in pounds per megawatt-hour for SO_2 , CO_2 , and NO_x and pounds per gigawatt-hour for mercury. Output-based emission rates shall be provided for individual units and as a facility total for all units included in the calculation demonstrating compliance.

4. A compliance certification report, which shall contain the following elements:

a. A statement certifying that the monitoring data reflects operations at the affected facility.

b. A statement that all SO_2 , CO_2 , and NO_x emissions, and, beginning January 1, 2009, all mercury emissions, from the affected facility were accounted for, either through the applicable monitoring or through application of the appropriate missing data procedures and reported in the quarterly reports. If provisionally certified data were reported, the company representative responsible for compliance with 310 CMR 7.29 shall indicate whether the status of all provisionally certified data was resolved and all necessary quarterly reports were submitted.

c. A statement certifying that the MWhs of net electrical output used in compliance calculations reflect the total actual electrical output of the facility used by the New England Independent System Operator to determine settlement resources of energy market participants.

d. A statement notifying the Department of any changes in the method of operation at the affected facility or the method of monitoring the units at the affected facility during the previous year. If a change is reported, then specify the nature of the change, the reason for the change, when the change occurred, and how the facility's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor recertification.

e. A certification statement stating (verbatim): "I am authorized to make this submission on behalf of the owners, lessees, operators and controllers of the affected facilities for which the submission is made. I certify that I have personally examined the foregoing and am familiar with the information contained in this document and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines or imprisonment."

(c) The Department may verify compliance by whatever means necessary, including but not limited to:

1. Inspection of a unit's operating records;

7.29: continued

2. Requiring the person who owns, leases, operates or controls an affected facility to submit information on actual electrical output of company generating units provided to that person by the New England Independent System Operator;

3. Testing emission monitoring devices; and,

4. Requiring the person who owns, leases, operates or controls an affected facility to conduct emissions testing under the supervision of the Department.

(d) Any person who owns, leases, operates or controls an affected facility shall keep all measurements, data, reports and other information required by 310 CMR 7.29 for five years, or any other period consistent with the affected facility's operating permit.

(e) For units that apply carbon or other sorbent injection for mercury control, the following records shall be kept until such time as a mercury monitoring system is installed at that unit:

1. The average carbon or other sorbent mass feed rate (in lbs/hr) estimated during the initial mercury optimization test and all subsequent mercury emissions tests, with supporting calculations.

2. The average carbon or other sorbent mass feed rate (in lbs/hr) estimated for each hour of operation, with supporting calculations.

3. The total carbon or other sorbent usage for each calendar quarter, with supporting calculations.

4. The carbon or other sorbent injection system operating parameter data for the parameter(s) that are the primary indicator(s) of carbon or other sorbent feed rate.

5. Identification of the calendar dates when the average carbon or other sorbent mass feed rate recorded under 310 CMR 7.29(7)(e)2. was less than the hourly carbon feed rate estimated during and recorded under 310 CMR 7.29(7)(e)1., with reasons for such feed rates and a description of corrective actions taken.

6. Identification of the calendar dates when the carbon injection or other sorbent system operating parameter(s) that are the primary indicator(s) of carbon or other sorbent mass feed rate recorded under 310 CMR 7.29(7)(e)4. are below the level(s) estimated during the optimization tests for mercury with reasons for such occurrences and a description of corrective actions taken.

(f) For units that apply technology other than carbon or other sorbent for mercury control, the operating parameter records to be kept until such time as a mercury monitoring system is installed at that unit shall be proposed to the Department in the emission control plan application required under 310 CMR 7.29(6)(a)3.

(g) For mercury monitoring, recordkeeping and reporting, any person who owns, leases, operates or controls an EGU (as defined in 40 CFR 60.24(h)(8)) at an affected facility shall comply with all mercury monitoring, recordkeeping and reporting requirements in 40 CFR Part 75 and "Monitoring and Reporting" in 40 CFR Part 60 Subpart HHHH and any additional mercury monitoring, recordkeeping and reporting requirements the Department deems necessary and specifies in the facility's ECP or mercury monitoring plan approval. In implementing the provisions of 40 CFR Part 75 and 40 CFR Part 60 Subpart HHHH concerning monitoring of mercury mass emissions, the terms used therein shall have the meanings defined in 40 CFR Part 72 and Part 60 respectively; provided, however, that the term <u>Permitting Authority</u> shall mean the Department, the term <u>Hg Budget Trading Program</u> shall mean 310 CMR 7.02 and 7.29, and the term <u>Hg Budget Unit</u> shall mean an EGU (as defined in 40 CFR 60.24(h)(8)).

(h) For selection of a Hg Designative Representative, any person who owns, leases, operates or controls an EGU (as defined in 40 CFR 60.24(h)(8)) at an affected facility must select a Hg Designated Representative for each affected facility, and may select an Alternate Hg Designated Representative, pursuant to the requirements of "Hg Designated Representative For Hg Budget Sources" in 40 CFR Part 60 Subpart HHHH. In implementing the provisions of 40 CFR Part 60 Subpart HHHH, the terms used in that subpart shall have the meanings defined in 40 CFR Part 60; provided, however, that the term <u>Permitting Authority</u> shall mean the Department, the term <u>Hg Budget Trading Program</u> shall mean 310 CMR 7.02 and 7.29, and the term <u>Hg Budget Unit</u> shall mean an EGU (as defined in 40 CFR 60.24(h)(8)).

(i) Any person subject to 310 CMR 7.29(5)(a)3. shall submit the results of all mercury emissions, monitor, and optimization test reports, along with supporting calculations, to the Department within 45 days after completion of such testing.

7.30: MB Massport/Logan Airport Parking Freeze

(1) Applicability.

(a) 310 CMR 7.30 in its entirety is applicable to the Massachusetts Port Authority, the body politic and corporate, created by and existing pursuant to St. 1956, c. 465, hereafter referred to as Massport, which is the owner/operator of the Logan International Airport in Boston, Massachusetts, hereafter referred to as Logan Airport.

(b) 310 CMR 7.30 in its entirety applies to the parking of motor vehicles on property owned or leased by Massport at Logan Airport, as well as sections of Neptune Road, geographically described as follows and hereafter referred to as the Logan Airport Parking Freeze Area. This geographic area, as shown on a map approved and held by the Department, shall be bounded as follows:

Beginning at the intersection of the high water line of the Boston Inner Harbor and the Logan Airport boundary, in the vicinity of the intersection of Jeffries Street and Marginal Street;

then following along the westerly boundary of the Airport, which in this area generally northwesterly along Maverick Street, northeasterly along Geneva Street, and southeasterly, northeasterly, northwesterly around Memorial Stadium, as far as the Massachusetts Bay Transportation Authority (MBTA) Blue Line right-of-way, just north of the Airport Station;

then northeasterly along the Blue Line right-of-way to the intersection of the Blue Line right-of-way and the Airport boundary, in the vicinity of the southerly end of Moore Street;

then northeasterly along the boundary of the Airport and then northeasterly, southeasterly, southwesterly and northeasterly along the Airport boundary to the point of beginning (the "Logan Airport Parking Freeze Area").

(c) In the event any property within the boundaries of the Logan Airport Parking Freeze Area is conveyed in fee by Massport, such property shall be removed from the Logan Airport Parking Freeze Area and become part of the East Boston Parking Freeze area at the time of such conveyance.

(2) <u>Terms of the Parking Freeze</u>.

(a) Commercial and employee parking spaces within the Logan Airport Parking Freeze Area shall be limited to 26,088 parking spaces, except as otherwise provided by 310 CMR 7.30(5), of which there shall be:

1. No more than 2,448 employee parking spaces, as defined by 310 CMR 7.00; and

2. No fewer than 23,640 commercial parking spaces, as defined by 310 CMR 7.00; provided that:

a. The total of employee and commercial parking spaces never exceeds 26,088 parking spaces, except as otherwise provided by 310 CMR 7.30(5); and

b. Employee parking spaces are permanently converted into commercial parking spaces utilizing the process set forward by 310 CMR 7.30(4).

3. The parking spaces within the Logan Airport Parking Freeze area may increase above 26,088 spaces in accordance with 310 CMR 7.30(5), provided that the inventory of commercial and employee parking spaces subject to the Logan Airport Parking Freeze does not exceed 26,790 parking spaces.

(3) <u>Parking Space Inventory</u>.

(a) Every six months, by March 1st and September 1st of each calendar year, Massport shall submit to the Department a parking space inventory that describes the following:

1. all commercial, employee, and rental motor vehicle parking spaces available in the Logan Airport Parking Freeze Area; and

2. all restricted use parking spaces under 310 CMR 7.30(7) regardless of location. The parking space inventory shall include a map of sufficient detail to identify the type and quantity of parking spaces available by location.

(b) If the total inventory of on-airport commercial and employee parking spaces exceeds the number of on-airport commercial and employee parking spaces allowed under 310 CMR 7.30(2), then Massport shall identify the number of spaces by type and location that are immediately eliminated and the means by which this has been accomplished in order to ensure that the number of on-airport parking spaces complies with the requirements of 310 CMR 7.30(2).

(c) If the total inventory of on-airport commercial and employee parking spaces is less than the number of on-airport commercial and employee spaces allowed under 310 CMR 7.30(2), Massport shall be certified by the Department as having a total of the number of on-airport commercial and employee spaces allowed under 310 CMR 7.30(2), upon the Department's receipt of the parking space inventory and provided that the inventory submittal includes an identification of the potential location and quantity of parking spaces that represent the difference between the existing parking spaces and the number of on-airport commercial and employee spaces allowed under 310 CMR 7.30(2).

(4) Employee Parking Reduction.

(a) Massport shall take feasible measures to reduce permanently the number of on-airport employee parking spaces either through relocating said parking spaces to locations outside of the Logan Airport Parking Freeze Area, which maximize regional and local air quality benefits, or through providing incentives to employees to use alternative means of transportation to access Logan Airport property.

(b) Massport may convert to commercial parking an equal number of parking spaces as have been permanently eliminated from the employee parking space inventory and shall annually submit documentation which supports this conversion, in accordance with the reporting requirements at 310 CMR 7.30(9).

(c) Employee parking relocated from the Logan Airport Parking Freeze Area shall not be located in another area subject to a parking freeze.

NON-TEXT PAGE

(5) <u>Park and Fly Parking</u>. Notwithstanding any provisions herein to the contrary or any subsequent disposition of the property by Massport, in the event that Massport, or its nominee, acquires in fee, or leases for a term in excess of five years, property within the East Boston Parking Freeze on which Park and Fly Parking Spaces included in the East Boston Parking Freeze Area inventory, certified by the Department under 310 CMR 7.31(3), are located, such spaces, upon notification by Massport to the Department and the Boston Air Pollution Control Commission (BAPCC) will be automatically and permanently converted to Commercial Parking Spaces within the Logan Airport Parking Freeze Area. The Logan Airport Parking Freeze Area Commercial Parking Space inventory pursuant to 310 CMR 7.30(2)(a) will be permanently increased, and the East Boston Parking Freeze Park and Fly Parking Space inventory pursuant to 310 CMR 7.31(3) will be permanently decreased by the number of such converted spaces. All such converted spaces may be relocated and used as commercial parking spaces within the Logan Airport Parking Freeze Area.

((6) Rental Motor Vehicle Parking: Reserved).

(7) Restricted Use Parking.

(a) The category of restricted use parking spaces is created with the understanding that Massport experiences, at several times during the year, extreme peaks of air travel and corresponding demand for parking spaces. Restricted use parking spaces may be made available for use only at such times.

(b) Massport shall limit the use of restricted use parking spaces, defined at 310 CMR 7.00, to ten days in any calendar year. If this limitation is projected to be exceeded and/or in fact is exceeded in any given calendar year, then the requirements and procedures described at 310 CMR 7.30(7)(e) and (f) shall apply.

(c) Restricted use parking spaces may be located within the Logan Airport Parking Freeze Area, but shall not be located in the East Boston Parking Freeze Area or any other geographic area subject to a parking freeze.

(d) The category of restricted use parking spaces shall be subject to the following monitoring and reporting provisions:

1. On December 31st of each calendar year Massport shall submit to the Department a letter containing an estimate of the number of days and the dates on which Massport anticipates the need over the following calendar year to invoke the use of restricted use parking spaces, including the estimated number and location of said spaces.

2. Massport shall monitor and track the use of these spaces continuously throughout the year and on March 1st of the following year shall submit a report to the Department describing the actual dates, locations and numbers of restricted use parking spaces used in the preceding calendar year.

(e) Should the actual number of days when restricted use parking is invoked by Massport exceed six by July 1st of any year, Massport shall submit to the Department, on or before August 1st, a report outlining strategies Massport commits to undertake during the remainder of the calendar year so as not to have to invoke the use of the restricted use parking spaces more than four additional days that calendar year.

(f) Should Massport invoke the use of restricted use parking spaces for more than ten days during the calendar year, Massport shall submit to the Department, on or before March 1st of the following year, a report containing:

1. An explanation of why the ten day limit on use of restricted use parking spaces was exceeded.

2. A determination of whether this exceedence was temporary or may be expected to continue into future years and technical support for this determination.

3. A projection of future need to use restricted use parking spaces in terms of number of days and number of spaces, and an analysis of the air quality impacts of the projected use of the restricted use parking spaces.

4. A plan and schedule for initiating actions which will eliminate the projected need identified in 310 CMR 7.30(7)(f)3.

5. A commitment from Massport to implement the actions identified in 310 CMR 7.30(7)(f)4.

(8) <u>Transportation Management Studies and Programs</u>.

(a) Massport shall complete the following studies, each within 24 months of June 30, 2017 to aid its efforts to reduce the air quality impacts of different ground access modes for travel to and from Logan Airport:

1. A study of the costs, feasibility and effectiveness of potential measures to improve high occupancy vehicle access to Logan Airport. The study shall consider, among other things, possible improvements to Logan Express bus service and the benefits of adding Silver Line buses with service to Logan Airport.

2. A study of costs and pricing for different modes of transportation to and from Logan Airport to identify a pricing structure and the use of revenues so generated to promote the use of high occupancy modes of transportation by Airport air travelers and visitors. The study shall include evaluation of short-term and long-term parking rates and their influence on different modes of airport transportation.

3. A study of the feasibility and effectiveness of potential operational measures to reduce non-high occupancy vehicle pick-up/drop-off modes of transportation to Logan Airport, including an evaluation of emerging ride-sharing and transportation network company modes.

(b) Massport shall make all reasonable efforts to identify, analyze, implement and communicate to the public the availability of transportation management programs including but not limited to:

1. Maintenance and improvement of current transportation management programs of remote parking/express bus service; infrastructure and leasing arrangements for the water shuttle service to and from Logan Airport; the one way toll program; and the commercial vehicle lane at Logan Airport.

2. Identification of additional suitable site(s) and implementation of additional remote parking/express bus service(s).

3. Identification and study of the feasibility and impact on transportation and air quality parameters of additional transportation management programs and ground access improvement projects.

(c) Massport shall report annually the status of studies, findings and commitments to implement in accordance with 310 CMR 7.30(9).

(9) <u>Recordkeeping and Reporting</u>. On or before March 1st of each year Massport shall submit a report detailing the progress and status of each provision of 310 CMR 7.30, in its entirety, during the preceding calendar year. Copies of said report shall be submitted to the Department, EPA, the Chairman of the Boston MPO, and the BAPCC. Massport may, with the consent of the Department, satisfy this reporting requirement through the submission of annual Environmental Data Reports or similar airport-wide documents pursuant to M.G.L. c. 30, §§ 61 through 62H, provided that the above parties receive copies of such reports.

(10) Enforcement. The Commissioner will enforce 310 CMR 7.30 under applicable law.

7.31: MB City of Boston/East Boston Parking Freeze

(1) Applicability

(a) 310 CMR 7.31 in its entirety is applicable to the City of Boston through the authority of the Boston Air Pollution Control Commission; the entity within the City of Boston Department of the Environment which through regulations and procedures adopted under authority vested in said Commission by M.G.L., c. 111, § 31C, and hereafter referred to as BAPCC, is responsible for administering local air pollution control programs including parking freezes within the geographic and political boundaries of the City of Boston.

(b) 310 CMR 7.31 in its entirety applies to the parking of motor vehicles in the area of East Boston, geographically described as follows and hereafter referred to as the East Boston Parking Freeze Area. This geographic area, as shown on a map approved and held by the Department, shall be bounded as follows:

Beginning at the point where Waldemar Avenue meets Walley Street and continuing in a westerly direction along Waldemar Avenue to the William McClellan Highway and continuing in a northwesterly direction in a straight line to the Chelsea River;

then southwesterly along the high water line of the River to the Boston Inner Harbor; then continuing generally southeasterly along the high water line of the Harbor to the

Logan Airport boundary; then following along the westerly boundary of the Airport, (which in this area runs generally northwesterly along Maverick Street, northeasterly along Geneva Street, and southeasterly, northeasterly, northwesterly around Memorial Stadium) to the Massachusetts Bay Transportation Authority (MBTA) Blue Line right-of-way, just north

of the Blue Line Airport Station;

then northeasterly along the Blue Line right-of-way to the southerly edge of property known as the Robie Industrial Park;

then easterly, northerly and westerly along the boundary of said Park and extending along an imaginary straight line to the MBTA Blue Line right-of-way;

then northeasterly along the Blue Line right-of-way to the intersection between the Blue Line right-of-way and the Airport boundary, in the vicinity of the southerly end of Moore Street;

then southeasterly along the airport boundary to the high water mark of the harbor; then northeasterly along the high water mark of the Harbor to the Belle Isle Inlet;

then generally northerly along the Belle Isle Inlet to Bennington Street in East Boston; then southwesterly along Bennington Street to the intersection with Leverett Avenue; then northwesterly along an imaginary straight line to the point of beginning (the "East

Boston Parking Freeze Area").

In the event that property described herein as Robie Industrial Park shall be owned or leased by Massport at some point in the future, then at the time of such purchase or lease, the Robie Park parcel shall become part of the Logan Parking Freeze Area.

(c) In the event that any property located within the boundaries of Logan Airport Parking Freeze Area is conveyed in fee by Massport, such property will become part of the East Boston Parking Freeze Area at the time of such conveyance.

(2) <u>Definition of the Parking Freeze</u>.

(a) There is hereby established a freeze on the availability of Park and Fly parking spaces within the East Boston Parking Freeze Area. No owner, operator or lessee of Park and Fly parking spaces within the East Boston Parking Freeze Area shall allow for the parking of motor vehicles in excess of the number of Park and Fly parking spaces available for use and/or permitted as of the effective date of 310 CMR 7.00.

(b) There is hereby established a freeze on the availability of Rental Motor Vehicle parking spaces. No owner, operator or lessee of Rental Motor Vehicle parking spaces within the East Boston Parking Freeze Area shall allow for the parking of Rental Motor Vehicles in excess of the number of Rental Motor Vehicle parking spaces actively in use as of the date 310 CMR 7.31 is first published in the *Massachusetts Register* (11/24/89).

(c) Parking spaces of types and categories not specifically cited in 310 CMR 7.31(2) are excluded from the provisions of the East Boston Parking Freeze.

(3) <u>Parking Space Inventory</u>.

(a) On or before June 30, 1990, the BAPCC shall submit to the Department an inventory of all Park and Fly and Rental Motor Vehicle parking spaces. Said document shall include a map and supporting descriptive material of sufficient detail to identify the type, location, and quantity of Park and Fly and Rental Motor Vehicle parking spaces located in the East Boston Parking Freeze Area.

(b) Within 60 days of receipt of said inventory, the Department, after review and consultation with interested parties, including but not limited to the BAPCC, Chairman of the Boston MPO, Massport and EPA, shall issue a finding of adequacy or inadequacy depending upon the results of the review. If found adequate, the number of spaces by category shall be the Department-certified parking freeze for the East Boston Parking Freeze Area. If found inadequate, the BAPCC, in consultation with the Department and other interested parties, shall have an additional 60 days to resolve the inadequacies, so that the Department shall, at the end of these additional 60 days, issue a number, based on information submitted to-date; said number shall be the Department-certified parking freeze for the East Boston Parking freeze for the East Boston Parking Freeze Area.

(c) The number of Park and Fly parking spaces certified by the Department in 310 CMR 7.31(3)(b) shall be the maximum number under 310 CMR 7.30(5) by which the Logan Airport Parking Freeze Area inventory of commercial parking spaces established by 310 CMR 7.30(2)(b), may be increased.

(d) Upon the conversion of any park and fly parking spaces under 310 CMR 7.30(5) from the East Boston Freeze Area to commercial parking spaces within the Logan Airport Parking Freeze Area, the number of park and fly parking spaces certified by the Department in 310 CMR 7.31(3)(b) shall be permanently reduced by the number of parking spaces relocated to the Logan Airport Parking Freeze Area.

(e) Upon the relocation of any rental motor vehicle parking spaces under 310 CMR 7.30(6) from the East Boston Freeze Area to the Logan Airport Parking Freeze Area, the number of rental motor vehicle parking spaces certified by the Department in 310 CMR 7.31(3)(b) shall be permanently reduced by the number of parking spaces relocated to the Logan Airport Parking Freeze Area.

(4) Parking Freeze Plan.

(a) On or before June 30, 1990, BAPCC shall develop and submit to the Department, with copies to the Chairman of the Boston MPO, Massport and EPA, an East Boston Parking Freeze plan, developed in coordination and consultation with the Boston Zoning Commission, the Boston Department of Transportation, Corporation Counsel, the Department, Massport, and the Chairman of the Boston MPO and other city and state authorities as may be appropriate. Said plan shall contain the following:

1. Authority and responsibilities of City entities supporting the implementation of each of the components of the East Boston Parking Freeze.

2. The identification of new local ordinances, rules, regulations and policies, or modifications to existing local ordinances, rules, regulations and policies, where needed, to enable the City to implement each of the components of the East Boston Parking Freeze.

3. A schedule for adopting each of these additions and/or changes identified in 310 CMR 7.31(4)(a)2.

4. An implementation plan describing the actions to be taken by the City of Boston, Massport, and any other applicable party to enable the relocation of Park and Fly parking spaces from the East Boston Parking Freeze Area to the Logan Airport Parking Freeze Area, described in 310 CMR 7.30(1).

(5) <u>City of Boston "Procedures and Criteria for Issuance of Parking Freeze Permits"</u>.

(a) On or before December 31, 1990, BAPCC shall amend the existing "Procedures and Criteria for Issuance of Parking Freeze Permits" required by 40 CFR 52.1135(f), and submit these amendments to the Department for review and approval. Amendments shall incorporate the following additions and modifications:

1. The East Boston Freeze Area and the Department-certified parking freeze number.

2. Modify procedures, as necessary, so as to delineate the administration and management of the East Boston Parking Freeze. Said modifications shall include provisions requiring approval by the BAPCC for any change in the location of the available parking spaces within the East Boston Parking Freeze Area.

(6) <u>Recordkeeping and Reporting</u>.

(a) On or before March 1 of each year BAPCC shall submit a report detailing the progress and status of each provision of 310 CMR 7.31, in its entirety, during the preceding calendar year. Copies of said report shall be submitted to the Department, EPA, Chairman of the Boston MPO, and Massport.

(b) Copies of local ordinances adopted or modified in support of the East Boston Parking Freeze shall be submitted to the Department as they become effective.

(7) <u>Enforcement</u>. The Commissioner will enforce 310 CMR 7.31 under applicable law.

7.33: MB City of Boston/South Boston Parking Freeze

(1) Applicability.

(a) 310 CMR 7.33 is applicable to the Massachusetts Port Authority, the body politic and corporate, created by and existing pursuant to St. 1956, c. 456, as amended, hereafter referred to as Massport. Massport shall be responsible for administering the South Boston Parking Freeze on all Massport owned property.

(b) 310 CMR 7.33 is applicable to the City of Boston which shall be responsible for administering the South Boston Parking Freeze on all lands other that Massport owned property under the authority of the Boston Air Pollution Control Commission (BAPCC). Under M.G.L., c. 111, § 31C, BAPCC is responsible for administering local air pollution control programs including parking freezes within the geographic and political boundaries of the City of Boston.

(c) 310 CMR 7.33 applies to the parking of motor vehicles in the South Boston Parking Freeze Area. The South Boston Parking Freeze area shall be divided into three zones defined as: (1) the South Boston Piers Zone, (2) the South Boston Industrial/Commercial Zone and (3) the South Boston Residential Zone. These geographic areas shall be bounded as follows: The South Boston Piers Zone:

Beginning at the point where Mount Washington Street meets the high water line of the Fort Point Channel and continuing in a westerly direction to the center point of the Channel; then northeasterly along the imaginary center line of the Channel to the Boston Inner Harbor; then continuing southeasterly along the high water line to the southern most edge of the Boston Marine Industrial Park property; then easterly in a straight line to the center point of the Reserved Channel and continuing westerly in a straight line along the Channel to the point where it meets Summer Street; then following Summer Street in a northwesterly direction to a point where it meets Fargo Street; then following Summer Street; then westerly along an imaginary straight line back to the point where it meets B Street; then westerly along an imaginary straight line back to the point where Mount Washington meets the high water line.

The South Boston Industrial/Commercial Zone:

Beginning at the point where Southampton Street meets the railroad tracks and continuing northerly along the railroad tracks, to the West Fourth Street Bridge; then southeasterly along the Bridge to the center point of the Fort Point Channel; then north and northeasterly along the center line of the Channel to the point where it meets the imaginary line extending to the point of the beginning of the Piers Zone; then following along the southeast boundary line of the Piers Zone to its end point where it meets the imaginary line extending easterly along the center line of the Reserved Channel and then southerly in a straight line to the point where it meets the northeastern edge of the residential Zone boundary line; then following said boundary line westerly, northerly, and southerly back to the point where Southampton Street meets the railroad tracks.

The South Boston Residential Zone:

Beginning at the point where Southampton Street meets Dorchester Avenue and continuing in a northerly direction along Dorchester Avenue to West Second Street; then southeasterly along West Second Street to B Street; then northwesterly along B Street to West First Street; then southeasterly along West First Street to the point where it meets East First Street and continuing along East First Street to the point where it meets O'Day Boulevard; then easterly along O'Day Boulevard to the high water line of Boston Harbor around Castle Island to the point where it meets O'Day Boulevard; then following along O'Day Boulevard in a southwesterly direction to the point where it meets Preble Street and continuing along Preble Street back to the point where Southampton Street meets Dorchester Avenue.

(2) <u>Definition of the Parking Freeze</u>. There is hereby established a freeze on the availability of motor vehicle parking spaces within the South Boston Piers Zone and the Industrial/Commercial Zone and a freeze on the availability of remote parking spaces within the South Boston Residential Zone within the South Boston Parking Freeze Area. No owner, operator or tenant within the South Boston Parking Freeze Area Piers Zone and Industrial/Commercial Zones shall allow for the parking of motor vehicles in excess of the allowed number of motor vehicle parking Freeze Area Residential Zone shall allow for the parking of motor vehicles in excess of the allowed number of the parking spaces established by the parking spaces established by the parking the parking freeze.

(3) Parking Space Inventory.

(a) Not later than one year from the date 310 CMR 7.33 is first published in the *Massachusetts Register*, the BAPCC and Massport shall each submit to the Department, an inventory of all existing motor vehicle parking spaces and motor vehicle parking spaces which were part of any project submitted for review under the Massachusetts Environmental Policy Act process set forth in 301 CMR 11.00 or the Federal Environmental Review Process set forth in 42 U.S.C. 4321 *et seq.* as of August 1, 1990 and remote parking spaces for each of their respective areas. Said inventory shall include a map and supportive descriptive material of sufficient detail to identify the type, location, and quantity of motor vehicle parking spaces, including parking spaces for commercial, remote, employee, restricted use, off-peak uses and parking spaces eliminated during the Central Artery/Third Harbor Tunnel project construction, located in the South Boston Parking Freeze Area.

(b) Within 60 days of receipt of said inventory, the Department shall, after review and consultation with interested parties including, but not limited to, the BAPCC, Massport, Chairman of the Boston MPO, and the EPA, issue a finding of adequacy or inadequacy in writing. If found adequate, the number of motor vehicle parking spaces and remote parking spaces by zone shall be the Department-certified parking freeze base number for the South Boston Parking Freeze Area.

(c) If found inadequate, the BAPCC and/or Massport, in consultation with the Department, shall have an additional 60 days to resolve the inadequacies. If no agreement is reached, the Department shall, at the end of the second 60 day period, certify a parking freeze base number for the South Boston Parking Freeze Area in writing. If within 60 days of receipt of said initial inventory, the Department has not issued a finding of adequacy or inadequacy, the inventory shall be deemed adequate.

(d) <u>Property Transfers</u>. In the event that Massport acquires any interest in property in the South Boston Freeze area, Massport shall assume responsibility for administering the freeze on the properties acquired and shall amend the Parking Space Inventory submitted pursuant to 310 CMR 7.33(3).

(4) <u>Elimination of Parking Spaces During Central Artery/Third Harbor Tunnel Construction</u>. Motor vehicle parking spaces removed or eliminated permanently during the Seaport Access Road and Third Harbor Tunnel construction project shall be incorporated into the parking space inventory submitted pursuant to 310 CMR 7.33(3).

(5) Establishment of Parking Freeze Banks.

(a) The number of motor vehicle parking spaces in the South Boston Parking Freeze Area will be limited to the base inventory of all motor vehicle parking spaces in each zone. From this base inventory of motor vehicle parking spaces, parking freeze banks shall be created equal to 10% of the base inventory of motor vehicle parking spaces. The Parking freeze banks shall be administered separately by the BAPCC and Massport and hereafter referred to as the BAPCC Bank and the Massport Bank.

(b) Motor vehicle parking spaces eliminated for use in the South Boston Parking Freeze Area shall be credited to the appropriate parking freeze bank for reallocation and are not privately transferrable.

(6) <u>Parking Freeze Plan</u>.

(a) Not later than one year from the date 310 CMR 7.33 is published in the *Massachusetts Register*, the BAPCC and Massport shall each submit a plan to the Department, with copies to the Governor, the Boston Metropolitan Planning Organization and the Environmental Protection Agency Region I, a South Boston Parking Freeze plan, developed in coordination and consultation with the Boston Zoning Board of Appeals, the Boston Department of Transportation, the Department and other city and state authorities as may be appropriate which sets forth the procedures by which the South Boston Parking Freeze shall be implemented and enforced and the permitting of parking facilities shall be administered. The plans shall, at a minimum, include the following elements:

1. identification of the city agencies, authorities or entities that will be responsible for the various components of the Freeze and authority and responsibilities of the City entities supporting the implementation and enforcement of each of the components of the South Boston Parking Freeze;

2. a description of modifications needed to local ordinances, rules, regulations and/or policies to enable the city and Massport to implement and enforce the freeze, and a schedule for their adoption;

3. procedures for allocation of motor vehicle parking spaces from the parking freeze banks which includes methods for determining the need for such spaces consistent with street and intersection capacity; consultation procedures between BAPCC and Massport for allocation of spaces; and incentives for High Occupancy Vehicle (HOV) parking;

4. proposed text of amendments to the current BAPCC "Procedures and Criteria for Issuance of Parking Freeze Permits" and similar procedures for Massport. These guidelines shall pertain to the permitting of parking facilities, taking into consideration land use, commitments to specific trip-reduction measures, and the availability of improved transit;

5. A procedure to relocate motor vehicle parking spaces from the South Boston Piers Zone to the South Boston Industrial/Commercial Zone.

6. A procedure to ensure that motor vehicle parking spaces designated as off-peak parking spaces pursuant to 7.33(4) are not being utilized between the hours of 7:30 AM and 9:30 AM. Said procedures shall be enforced by the BAPCC and Massport upon approval by the Department of the Parking Freeze Plan required by 310 CMR 7.33(6).

(b) Within 60 days of receipt of said Parking Freeze Plans, the Department, after review and a non-adjudicatory public hearing shall issue a finding of adequacy or inadequacy, depending upon the results of the review. If within 60 days of receipt of said Parking Freeze Plans, the Department has not issued a finding of adequacy or inadequacy, the Parking Freeze Plans shall be deemed adequate. If found inadequate, the BAPCC and/or Massport, in consultation with the Department, shall have an additional 60 days to resolve the inadequacies. Failure to submit an acceptable Parking Freeze Plan by the end of the second 60 day period may result in the Department issuing a Parking Freeze Plan which the BAPCC and Massport shall proceed to implement and enforce; provided, however that no parking spaces shall be allocated unless a Department-approved or Department-issued Parking Freeze Plan under 310 CMR 7.33 is in effect.

(c) Following approval by the Department, the Parking Freeze Plans and Permitting Procedures shall be implemented and enforced by the BAPCC and Massport.

(7) <u>Off-Peak Parking</u>.

(a) A minimum of 10% of the existing motor vehicle parking spaces available in the South Boston Piers Zone shall be designated for use as off-peak parking spaces and shall not be open for entering customers between 7:30 A.M. and 9:30 A.M.. At the opening of service of the South Boston Transitway, 20% of the existing motor vehicle parking spaces available in the South Boston Piers Zone shall be designated for use as off-peak parking spaces available shall not be open for entering customers between 7:30 A.M. and 9:30 A.M..

(8) Completion of Central Artery/Third Harbor Tunnel.

(a) At such time that the Central Artery/Third Harbor Tunnel project is open for general public use, an inventory of existing motor vehicle parking spaces available in the South Boston Piers Zone shall be submitted by BAPCC and Massport to the Department following the procedures in 310 CMR 7.33(2). Following Department re-certification of the parking freeze number for the South Boston Piers Zone, 10% of the inventory of motor vehicle parking spaces shall be added to the BAPCC bank in the South Boston Piers Zone. Nothing in 310 CMR 7.33(8) shall prohibit the Department from requiring Massport and/or BAPCC to submit an updated inventory at any time prior to the opening of the Central Artery/Third Harbor Tunnel Project.

(9) <u>Restricted Use Parking</u>.

(a) Restricted Use parking may only be provided in the parking freeze area administered by the BAPCC in the South Boston Piers Zone or the South Boston Industrial/Commercial Zone for up to ten days per year on the conditions of 310 CMR 7.24. Massport is prohibited from providing restricted use parking in the South Boston Freeze area for any purpose. The provision of restricted use parking shall require substantial documentation including demand management plans and programs to be provided to the Department by the BAPCC to explain such use and to document how such use will be avoided in the future. The documentation requirements will be detailed by the BAPCC in the "Procedures and Criteria for Issuance of Parking Freeze Permits".

(b) Restricted use parking spaces shall be subject to the following monitoring and reporting provisions:

1. On December 31 of each calendar year BAPCC shall submit to the Department a letter containing an estimate of the number of days and dates on which the BAPCC anticipates the need over the following calendar year to invoke the use of restricted use parking spaces, including the estimated number and location of said spaces;

2. BAPCC shall monitor and track the use of these restricted use parking spaces continuously throughout the year and on March 1 of the following year shall submit a report to the Department describing actual dates, locations, and numbers of restricted use parking spaces used in the preceding calendar year.

(c) Should the actual number of days when restricted use parking spaces is invoked by the BAPCC exceed six days by July 1 of any year, BAPCC shall submit to the Department on or before August 1, a report outlining strategies the BAPCC commits to undertake during the remainder of the calendar year so as not to have to invoke the use of the of restricted use parking spaces more than the four additional days that calendar year.

(d) Should the BAPCC invoke the use of restricted use parking spaces for more than ten days during the calendar year, BAPCC shall submit to the Department, on or before March 1 of the following year, a report containing:

1. an explanation of why the ten day limit on the use of restricted use parking spaces was exceeded;

2. a determination of whether this exceedance was temporary or may be expected to continue into future years and technical support for this determination;

3. a projection of future need to use restricted use parking spaces in terms of the number of days and the number of spaces;

4. a plan and a schedule for initiating actions which will reduce the projected need identified in 310 CMR 7.22(3);

5. a commitment from BAPCC to implement the identified actions.

(10) <u>Relocation of Parking Spaces</u>. Relocation of motor vehicle parking spaces is not allowed into the South Boston Residential Freeze Zone or into the Industrial/Commercial Freeze Zone from the South Boston Freeze Piers Zone. To ensure greater flexibility in land use planning and development, a procedure shall be developed by the BAPCC and Massport, which will enable the relocation of motor vehicle parking spaces from the South Boston Piers Zone to the South Boston Industrial/Commercial Zone.

(11) <u>Remote Parking</u>.

(a) Additional remote parking spaces over and above the existing remote parking space inventory established in the parking space inventory approved by the Department pursuant to 310 CMR 7.33(3) shall not be allowed or permitted in the South Boston Parking Freeze Area. Remote parking facilities already in use upon the effective date of 310 CMR 7.00 shall be allowed to continue.

(b) Remote parking spaces which are eliminated for any purpose shall not be transferred to other owners, operators or tenants within the South Boston Freeze Area and shall return to the BAPCC Bank and Massport Bank for reallocation as motor vehicle parking spaces.

(12) "Procedures and Criteria for Issuance of Parking Freeze Permits"

(a) Two years from the date 310 CMR 7.33 is published in the *Massachusetts Register*, the BAPCC shall amend the existing "Procedures and Criteria for Issuance of Parking Freeze Permits", and submit these amendments to the Department for review and approval.

(b) Two years from the date 310 CMR 7.33 is published in the *Massachusetts Register*, Massport shall submit procedures and criteria for issuance of parking freeze permits to the Department for review and approval. Such procedures shall contain a process by which Massport shall consult with the BAPCC prior to allocating motor vehicle parking spaces from the Massport Bank, and shall provide BAPCC with a period of up to 30 days to comment on any proposed allocation of motor vehicle parking spaces from the Massport shall respond in writing to any comments from BAPCC which Massport does not accept.

(13) <u>Record Keeping and Reporting</u>.

(a) On or before June 15th of each year following submission of the parking freeze inventory pursuant to 310 CMR 7.33(3), BAPCC and Massport shall each submit a report to the Department and EPA Region I detailing the progress and status of each provision of 310 CMR 7.33 during the preceding calendar year.

(b) Every third year following the promulgation of the regulation, the annual status report submitted to the Department shall include an updated inventory of parking spaces in the South Boston Parking Freeze Area. The inventory conducted immediately following the completion of the Central Artery/Third Harbor Tunnel project shall establish a new three year reporting cycle.

(c) Copies of local ordinances adopted or modified in support of the South Boston Parking freeze shall be submitted to the Department as they become effective.

(14) <u>Prohibitions</u>. In the event the BAPCC and/or Massport fails to submit "Procedures and Criteria for Issuance of Parking Freeze Permits" by the date required pursuant to 310 CMR 7.33(12) or fails to follow a procedure once approved, no person shall develop motor vehicle parking spaces regulated herein until such time that a parking freeze permit is obtained in accordance with a permit program adopted under 310 CMR 7.33.

(15) Enforcement.

(a) The Department may enforce 310 CMR 7.33 under applicable law.

(b) The Department may enforce any requirement of 310 CMR 7.33, including but not limited to, the requirements of any Department approved parking freeze plan or parking freeze permit procedures adopted by BAPCC or Massport to satisfy the requirements of 310 CMR 33.00 in the event the BAPCC or Massport fail to do so.

(c) The failure of BAPCC or Massport to adequately comply with the requirements of the section may be cause for the Department to make a finding of nonconformity under Section 176(c) of the Clean Air Act Amendments of 1990, 42 U.S.C. 7506(c).

7.34: Massachusetts NO_x Ozone Season Program (MassNO_x)

(1) <u>Massachusetts NO_x Ozone Season Program General Provisions</u>.

(a) <u>Purpose and Scope</u>. The purpose of 310 CMR 7.34 is to control mass emissions of nitrogen oxides (NO_x) during the ozone season (May 1st through September 30th of each year). 310 CMR 7.34 establishes a statewide budget of 1,799 tons of NO_x mass emissions from MassNO_x Facilities for each ozone season.

(b) <u>Applicability</u>. The units listed in 310 CMR 7.34(7)(b): Table A shall be MassNO_x Units subject to the requirements of 310 CMR 7.34.

(c) <u>Permanently Retired Units</u>. The owner or operator of a MassNO_x Unit that is permanently retired after March 9, 2018 shall comply with the requirements of 310 CMR 7.34(4)(d) and (6)(c) and shall not be subject to the remaining requirements in 310 CMR 7.34.

(d) <u>Averaging Emissions</u>. For the purposes of determining the total ozone season NO_x mass emissions of a Mass NO_x Facility, the owner or operator of a Mass NO_x Facility shall not average the total NO_x ozone season mass emissions of a Mass NO_x Unit with the ozone season NO_x mass emissions of another facility.

(2) <u>Definitions</u>. The terms used in 310 CMR 7.34 are defined at 310 CMR 7.34(2). Where a term is defined in both 310 CMR 7.00 and 7.34, the definition in 310 CMR 7.34 shall apply.

<u>Acid Rain Program</u> means a multi-state SO_2 and NO_x air pollution control and emission reduction program established by the Administrator under title IV of the Act and 40 CFR Parts 72 through 78.

<u>Alternate MassNO_x Designated Representative</u> means the person who has been authorized by the owner or operator of the facility in accordance with 310 CMR 7.34(5)(c) to act on behalf of the MassNO_x Designated Representative in matters pertaining to NO_x mass emissions monitoring and reporting for the MassNO_x program. If the MassNO_x Facility is also subject to the Acid Rain Program then this person shall be the same natural person as the Alternate Designated Representative under the Acid Rain Program. If the MassNO_x Facility is not subject to the Acid Rain Program then this person shall be the same natural person as the SIPNO_x Source Alternate Designated Representative.

<u>CAIR NO_x Ozone Season Allowances</u> means a limited authorization that was issued by the Department to the owner or operator of a MassNO_x Unit under provisions of the State Implementation Plan that was approved under 40 CFR 51.123(aa)(1) or (2) and (bb)(1), (bb)(2), (dd), (ee), or under Subpart EEEE of 40 CFR Part 97 or 97.388, to emit a specified amount of tons of NO_x during the 2015 ozone season.

Combustion Turbine means:

(a) An enclosed device comprising of a compressor, a combustor, and a turbine and in which the flue gas resulting from the combustion of fuel in the combustor passes through the turbine, rotating the turbine; and

(b) If the enclosed device is combined cycle, any associated duct burner, heat recovery steam generator, and steam turbine.

<u>Cross-State Air Pollution Rule (CSAPR)</u> means the regulation promulgated at 40 CFR 97 Subpart EEEEE CSAPR NO_x Ozone Season Group 2 Trading Program by the Administrator of the United States Environmental Protection Agency.

<u>CSAPR NO_x</u> Ozone Season Group 2 Allowance means a limited authorization issued and allocated or auctioned by the Administrator under 40 CFR 97 Subpart EEEEE or § 97.526(c), or by a State or permitting authority under a SIP revision approved by the Administrator under 40 CFR 52.38(b)(6), (7), (8), or (9), to emit one ton of NO_x during a control period of the specified calendar year for which the authorization is allocated or auctioned or any calendar year thereafter under the CSAPR NO_x Ozone Season Group 2 Trading progam

 $\underline{MassNO_x}$ Designated Representative means the person who has been authorized by the owner or operator of the MassNO_x Facility to represent and legally bind the owner or operator in matters pertaining to the MassNOx program. If the MassNO_x Facility is also subject to the Acid Rain Program then this person shall be the same natural person as the Designated Representative under the Acid Rain Program. If the MassNO_x Facility is not subject to the Acid Rain Program then this person shall be the same natural person as the SIPNO_x Source Designated Representative.

 $MassNO_x$ Facility means a facility that has one or more $MassNO_x$ Units on site.

<u>MassNO_x Facility Emissions Budget</u> means a budget amount of ozone season NO_x mass emissions assigned to a MassNO_x Facility as determined by the Department.

MassNO_x Unit means any unit listed in 310 CMR 7.34(7)(b): Table A.

<u>Monitoring System</u> means a monitoring system that meets the requirements of 310 CMR 7.34(3) including a continuous emissions monitoring system, an alternative monitoring system, or an accepted monitoring system under 40 CFR Part 75, or as otherwise approved by the Department or the Administrator.

<u>Operator</u> means any person who operates, controls, or supervises a MassNO_x Unit or a MassNO_x Facility including, but not be limited to, any holding company, utility system, or plant manager of such a MassNO_x Unit or MassNO_x Facility.

Owner means any of the following persons:

(a) Any holder of any portion of the legal or equitable title in a $MassNO_x$ Unit or a $MassNO_x$ Facility; or

(b) Any holder of a leasehold interest in a $MassNO_x$ Unit or a $MassNO_x$ Facility; or

(c) Any purchaser of power from a $MassNO_x$ Unit or a $MassNO_x$ Facility under a life-of-the-unit, firm power contractual arrangement; provided that, unless expressly provided for in a leasehold agreement, owner shall not include a passive lessor, or a person who has an equitable interest through a passive lessor, whose rental payments are not based (either directly or indirectly) on the revenues or income from a $MassNO_x$ Unit or a $MassNO_x$ Facility.

<u>Ozone Season</u> means the period beginning May 1^{st} of a calendar year, and ending on September 30^{th} of the same year.

<u>Reference Method</u> means any direct test method of sampling and analyzing for an air pollutant as specified in 40 CFR 75.22.

<u>SIPNO_x Source</u> means any MassNO_x Unit that is subject to;

(a) The applicability requirements of 40 CFR 75.2 and is required, by the Administrator, to monitor and report NO_x mass emissions under 40 CFR 75 in the Emissions Collection and Monitoring System (ECMPS); or

(b) The applicability requirements of 40 CFR 75.70 and is required, by the Department, to monitor and report NO_x mass emissions under 40 CFR 75 Subpart H in the Emissions Collection and Monitoring System (ECMPS).

<u>Ton</u> means 2,000 pounds. For the purpose of determining compliance with the state-wide emissions budget, total tons of NO_x mass emissions for an ozone season shall be calculated as the sum of all recorded hourly emissions (or the mass equivalent of the recorded hourly emission rates) in accordance with 310 CMR 7.34(3)(c), but with any remaining fraction of a ton equal to or greater than 0.50 tons deemed to equal one ton and any remaining fraction of a ton less than 0.50 tons deemed to equal zero tons.

(3) Monitoring Requirements.

(a) <u>Definitions and Terms</u>. For purposes of complying with monitoring requirements, the definitions in 310 CMR 7.34(2), 40 CFR 75.2, and 40 CFR 75.70 shall apply, and the terms "affected unit", "designated representative", and "continuous emission monitoring system" (or "CEMS") in 40 CFR Part 75 shall be deemed to refer to the terms "MassNO_x Unit", "MassNO_x Facility", "MassNO_x Designated Representative" and "monitoring system", respectively, as defined in 310 CMR 7.34(2).

(b) <u>Monitoring Requirements</u>. The owner or operator of a MassNO_x Unit, shall operate and maintain a monitoring system to measure NO_x ozone season mass emissions and heat input in accordance with the provisions 40 CFR Part 75 Subpart H.

(c) <u>Mass Emissions Determination</u>. The owner or operator of a $MassNO_x$ Unit shall maintain and operate all monitoring systems, including all systems required to monitor NO_x mass emission rate, NO_x concentration, stack gas moisture content, stack gas flow rate, CO_2 or O_2 concentration, fuel flow rate, and heat input, as applicable, in accordance with 40 CFR 75.71 and 40 CFR 75.72.

(d) <u>Out of Control Periods</u>. Whenever a monitoring system fails to meet the qualityassurance and quality-control requirements or data validation requirements of 40 CFR 75, data shall be substituted using applicable missing data procedures of 40 CFR Part 75 Subpart D, or H, or 40 CFR 75 Appendix D or E.

(e) <u>Prohibitions</u>. The owner or operator of a $MassNO_x$ Unit shall not use any alternative monitoring system, alternative reference method, or any other alternative to any requirement of 310 CMR 7.34(3) without prior written approval from the Department and the Administrator.

(4) <u>Reporting Requirements</u>.

(a) <u>General Requirements</u>. The owner or operator, and to the extent applicable, the MassNO_x Designated Representative, of a MassNO_x Unit, shall comply the reporting requirements of 40 CFR 75 Subpart H and 310 CMR 7.34(4).

(b) <u>Quarterly Emissions Reporting</u>. The MassNO_x Designated Representative shall submit quarterly reports of NO_x mass emissions data and heat input data from the MassNO_x Facility to the Administrator on a quarterly basis or for the control period within 30 days following the end of the calendar quarter covered by the report in the manner specified in 40 CFR 75.73(f).

(c) <u>Compliance Certification Reporting</u>. The $MassNO_x$ Designated Representative shall submit a compliance certification to the Administrator in a format prescribed by the Administrator. The compliance certification shall be submitted in support of each quarterly report based on a reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. In the compliance certification the MassNO_x Designated Representative shall certify:

1. The monitoring data submitted was recorded in accordance with the applicable requirements of 310 CMR 7.34(3) and 40 CFR Part 75, including the quality assurance procedures and specifications;

2. For a MassNO_x Unit with add-on NO_x emission controls and for all hours where NO_x data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under 40 CFR Part 75: *Appendix B* and the substitute data values do not systematically underestimate NO_x emissions; and

3. For a unit that is reporting on a control period basis under 310 CMR 7.34(4)(b), the NO_x mass emission rate and NO_x concentration values substituted for missing data under Subpart D of 40 CFR Part 75 are calculated using only values from a control period and do not systematically underestimate NO_x emissions.

(d) <u>Permanently Retired Unit Reporting</u>. Within 30 days of the permanent retirement of the MassNO_x Unit, the MassNO_x Designated Representative shall submit a statement to the Department and a duplicate copy to the Administrator. In the statement the MassNO_x Designated Representative shall certify:

1. That the MassNO_x Unit was permanently retired;

2. The date on which the $MassNO_x$ Unit was permanently retired.

(e) <u>Certification of Reports</u>. All reports submitted to the Department under the $MassNO_x$ program must be signed and attested to by the $MassNO_x$ Designated Representative or Alternate $MassNO_x$ Designated Representative and must include the following statement:

"I certify that I have personally examined the foregoing and am familiar with the information contained in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment."

(5) <u>MassNO_x Designated Representatives and Alternate MassNO_x Designated Representatives.</u>
 (a) <u>Authorized MassNO_x Designated Representative</u>. Each MassNO_x Facility shall authorize one MassNO_x Designated Representative to act on behalf of the owner or operator with regard to all matters under the MassNO_x. Program, the MassNO_x Facility, or any individual MassNO_x Unit.

(b) <u>Certificate of Representation</u>. The owner or operator of a MassNO_x Facility shall, in the format prescribed by the Administrator, submit to the Administrator a complete certificate of representation for a MassNO_x Designated Representative and/or an Alternate MassNO_x Designated Representative.

(c) <u>Alternate MassNO_x Designated Representative</u>. A certificate of representation under 310 CMR 7.34(5)(b) may designate one Alternate MassNO_x Designated Representative who may act on behalf of the MassNO_x Designated Representative. Upon receipt by the Administrator of a complete certificate of representation under 310 CMR 7.34(5)(b), any representation, action, inaction, or submission by the Alternate MassNO_x Designated Representative shall be deemed to be a representation, action, inaction, or submission by the MassNO_x Designated Representative.

(d) <u>Change of the MassNO_x Designated Representative or Alternate MassNO_x Designated Representative</u>. The owner or operator may change the MassNO_x Designated Representative or the Alternate MassNO_x Designated Representative at any time by submitting a certificate of representation under 310 CMR 7.34(5)(b); such change shall be effective upon receipt by the Administrator.

(6) <u>Recordkeeping Requirements</u>.

(a) <u>General Requirements</u>. An owner or operator of a MassNO_x Facility shall comply with all of the recordkeeping requirements of 40 CFR 75 Subpart H and 310 CMR 7.34(4).

(b) <u>On-site Record Retention</u>. An owner or operator of a MassNO_x Facility shall keep onsite at the facility all records and reports required by 310 CMR 7.34(4) for a period of five years from the date the record or report is created. The Department may extend this period for cause, in writing, at any time before the end of the five years.

(c) <u>Permanently Retired Units Record Retention</u>. An owner or operator of a permanently retired $MassNO_x$ Unit shall retain, at the $MassNO_x$ Facility, records demonstrating that the $MassNO_x$ Unit is permanently retired, for a period of five years from the date the record is created. The Department or the Administrator may extend this period for cause, in writing, at any time before the end of the five years.

(7) <u>MassNO_x Ozone Season Emissions Budgets</u>.

(a) <u>Statewide Emissions Budget</u>. Beginning May 1, 2017, and for each ozone season thereafter, the total statewide emissions budget for MassNO_x Facilities shall be 1,799 tons per ozone season. The statewide budget shall remain 1,799 tons for each ozone season regardless of any MassNo_x Facility or MassNo_x Unit retirement.

(b) <u>MassNO_x Facility Emissions Budgets</u>. Beginning May 1, 2017, the emissions budget in 310 CMR 7.34(7)(b): *Table A* shall apply to each listed facility.

FACILITY NAME	ORIS CODE	UNIT(S)	MASSNO _x FACILITY EMISSIONS BUDGET (Tons of NO _x Per Ozone Season)
Braintree Electric	1660	3, 4, 5	23
Brayton Point Energy, LLC	1619	1, 2, 3, 4	989
Dartmouth Power Associates	52026	1, 2, 5	32
Essential Power Mass, LLC, Doreen St.	1631	1	0
Essential Power Mass, LLC, Woodland St.	1643	1	0
Essential Power West Springfield	1642	15, 17	9
Exelon Framingham	1586	FJ-1, FJ-2, FJ-3	0
Exelon New Boston	1589	NBJ1	0
Exelon West Medway	1592	J1T1, J1T2, J2T1, J2T2, J3T1, J3T2	1
General Electric Aircraft Engines	10029	99-5, 99-3	10
Harvard University Blackstone Steam Plant	1594	B11, B12	8
Kendall Green Energy, LLC	1595	2, 3, 86	67
Kneeland St. Station	880023	1, 2, 3, 4	60
Masspower	10726	1, 2	93
MBTA South Boston Power	10176	A, B	1
Milford Power, LLC	54805	1	76
MWRA Deer Island	10823	S42, S43	0
Mystic Station	1588	4, 10	42
NEA Bellingham	10307	1, 2	138
NRG Canal Station	1599	1, 2	143
Peabody Municipal Light Plant – Waters River	1678	1, 2	3
Pittsfield Generating Company, LP	50002	1, 2, 3	29
Stony Brook Energy Center	6081	1, 2, 3, 4, 5	60
Taunton Municipal Light Plant – Cleary Flood	1682	8,9	15

310 CMR 7.34(7)(b): Table A

(c) <u>Permanently Retired Units</u>. The owner or operator of a permanently retired $MassNO_x$ Unit shall not operate the $MassNO_x$ Unit during the ozone season. The retirement of a $MassNO_x$ Unit shall not affect the $MassNO_x$ Facility Emissions Budget listed in 310 CMR 7.34(7)(b).

(d) <u>Permanently Retired Facilities</u>. The owner or operator of a permanently retired MassNO_x Facility shall not operate the MassNO_x Facility during the ozone season. The retirement of a MassNO_x Facility shall not affect the statewide budget in 310 CMR 7.34(7)(a) and the MassNO_x Facility's Emissions Budget listed in 310 CMR 7.34(7)(b) shall not be allocated to any other MassNOx Facility.

(8) <u>Statewide Emissions Budget Exceedance and Required Actions</u>.

(a) If the Department determines that the state-wide emissions budget of 1,799 tons of NO_x per ozone season is exceeded, the Department shall notify the owner or operator of each MassNO_x Facility that emitted greater than the MassNO_x Facility Emissions Budget listed in 310 CMR 7.34(7)(b): *Table A*, no later than 30 days after the close of the ozone season. (b) Within 60 days of being notified by the Department, each such MassNO_x Facility shall transfer to the Department CSAPR NO_x Ozone Season Group 2 Allowances, 2017 vintage or later, at a rate of one CSAPR NO_x Ozone Season Group 2 Allowance for every one ton of excess emissions above the MassNO_x Facility Emissions Budget.

(c) The Department may request NO_x emissions data or any additional related information from any MassNO_x Facility during or after the applicable ozone season for verification purposes.

7.36: U Transit System Improvements

(1) <u>Applicability</u>. 310 CMR 7.36 shall apply to the Massachusetts Department of Transportation, hereafter referred to as MassDOT, and any successor agency to MassDOT.

(2) <u>Transit System Improvement Projects</u>. MassDOT shall plan and construct and render available for public use, transit system improvement projects including the following projects in accordance with the schedules and requirements set forth in 310 CMR 7.36:

(a) Before December 31, 1992 construction of the following facilities shall be completed and opened to full public use:

- 1. Lynn Central Square Station and Parking Garage
- 2. North Station high platforms and new tracks
- 3. Lynn Transit Station Bus Terminal

(b) Before December 31, 1994 construction of the following facilities shall be completed and opened to full public use:

- 1. South Station Bus Terminal
- 2. South Station Track #12
- 3. Ipswich Commuter Rail Line extension to Newburyport

(c) Before December 31, 1996, construction of the following facilities shall be complete and opened to full public use:

- 1. Old Colony Commuter Rail Line Extensions to Middleboro and Plymouth
- 2. Framingham Commuter Rail line extension to Worcester

3. 10,000 Park and Ride and Commuter Rail Station parking spaces system-wide outside of the Boston core area as defined by a report to be submitted to the Department by MassDOT which identifies the location, size and market area of each facility constructed to satisfy this requirement. Said report will be submitted three months prior to the deadline for this project.

NON-TEXT PAGE

(d) Before December 31, 1999 construction of the following facilities shall be completed and opened to full public use:

10,000 Park and Ride and Commuter Rail Station Parking spaces system-wide outside of the Boston Core Area in addition to those spaces developed pursuant to 310 CMR 7.36(2)(c)3. as defined by a report to be submitted to the Department by MassDOT which identifies the location, size and market area of each facility constructed to satisfy this requirement. Said report shall be submitted three months prior to the deadline for this project.

(e) Before December 31, 2001 construction of the following facility shall be completed and opened to full public use:

South Boston Piers Electric Bus Service

(f) Before December 31, 2007, construction of the following facility shall be completed and opened to full public use:

Old Colony Commuter Rail Line Extension to Scituate (Greenbush).

(g) Before December 31, 2008, construction of the following facility shall be completed and opened to full public use:

Blue Line Platform Lengthening and Modernization.

(h) Before December 31, 2011, construction of the following facilities shall be completed and opened to full public use:

1. Fairmount Line improvements consisting of enhancements of existing stations including, without limitation: platform extensions; improved lighting and improved access; a new station in the general location of Four Corners, and a new station in each of the neighborhoods of Dorchester, Mattapan and Roxbury; and bridge upgrades and other measures to improve service and increase ridership (the Fairmount Line project). MassDOT shall meet the following interim deadlines for the Fairmount Line Project:

a. One year from the effective date of 310 CMR 7.36, develop a Request for Proposals for a design consultant, complete the competitive procurement process, and issue a notice to proceed for a design consultant; and

b. Within two years following completion of the requirements of 310 CMR 7.36(2)(h)1.a., complete the requirements of 310 CMR 7.36(3)(e)1. through 6. and 310 CMR 7.36(3)(f).

2. 1000 new park and ride parking spaces serving commuter transit facilities, in addition to those required by 310 CMR 7.36(2)(c)3. and (d), within the 101 cities and towns constituting the Boston Metropolitan Planning Organization.

(i) Before December 31, 2014, construction of the following facilities shall be completed and opened to full public use:

1. The Green Line Extension from Lechmere Station to Medford Hillside; and

2. The Green Line Union Square spur of the Green Line Extension to Medford Hillside.

(3) <u>Project Interim Deadlines</u>. For each project required by 310 CMR 7.36(2)(h)2. and (i), MassDOT shall meet the following Interim Deadlines.

(a) On or before 18 months following June 1, 2007, MassDOT shall:

1. Develop a Request for Proposals for a design consultant;

2. Complete the competitive procurement process; and

3. Issue a Notice to Proceed for a design consultant.

(b) On or before 15 months following the interim deadline established by 310 CMR 7.36(3)(a), MassDOT shall:

1. Complete the Conceptual Design as contracted for under 310 CMR 7.36(3)(a); and

2. File an Environmental Notification Form (ENF) with MEPA.

(c) On or before two years following MEPA's issuance of a Scope for a Draft EIR or a Singe EIR pursuant to 301 CMR 11.06(7): *Decision on ENF and Scope* or (8): *Decision Allowing Single EIR* MassDOT shall:

1. Complete preliminary design; and

2. File a Draft EIR or, where applicable, a Single EIR with MEPA.

(d) On or before one year following MEPA's issuance of a Scope for the Final EIR, MassDOT shall: Develop and file the Final EIR with MEPA.

(e) On or before 18 months following MEPA's issuance of a certificate on a Final EIR or a Single EIR, MassDOT shall:

1. Complete final design necessary to begin the construction phase sufficient to make application for: all local, state, and federal permits; any necessary federal funds and grants; any legislation and public land application which will be required; and any private land takings;

2. Identify all local, state, and federal approval, grants, permits, legislation, and other required actions necessary for completion of the final project construction and completion schedule required by 310 CMR 7.36(3)(f).

- 3. Apply for all necessary local, state, and federal permits;
- 4. Apply for necessary federal funds and grants;
- 5. File required legislation and initiate public land acquisition; and
- 6. Initiate private land takings to proceed to construction.

(f) MassDOT shall make all reasonable efforts to obtain all necessary approvals, grants, permits, or legislation consistent with meeting these interim deadlines.

(g) For the project required by 310 CMR 7.36(2)(i), following the completion of the requirements of 310 CMR 7.36(3)(a) through (f) and the receipt of all necessary approvals, grants, permits, or legislation, MassDOT and the Department shall establish a schedule for project construction and deadlines for project completion meaning that the project is opened to full public use. Final deadlines established under 310 CMR 7.36(3)(g) shall replace project deadlines included in 310 CMR 7.36(2)(i). However, interim emission reduction offset measures or projects shall be implemented for the period of delay from the project deadline included in 310 CMR 7.36(2)(i) until the project is completed and opened to full public use.

(4) <u>Project Delays and Implementation of Interim Emission Reduction Offset Projects and</u> <u>Measures</u>.

(a) Provided that the requirements of 310 CMR 7.36(7) and 310 CMR 7.36(4)(b) and (c) are met, the projects listed in 310 CMR 7.36(2)(h) and (i) may be delayed beyond the project deadlines established pursuant to 310 CMR 7.36(2).

(b) For delayed projects, MassDOT shall implement interim emission reduction offset projects or measures during the period of delay. Such interim emission offset projects or measures shall achieve emission reductions of NMHC, CO and NOx equal to or greater than the emission reductions that would have been achieved had the project not been delayed. MassDOT shall meet the requirement of 310 CMR 7.36(4)(b) by either:

1. Implementing projects or measures that are not otherwise required by any contractual or other legal obligation, state or federal law or regulation including without limitation 310 CMR 7.36 and 7.38, or by any state or federal enforcement action; Such projects shall include providing new park and ride parking spaces serving commuter transit facilities or the retrofit of diesel engines with verified diesel retrofit technologies in the transit ridership area of the delayed project; or

2. Implementing a project required by 310 CMR 7.36(2)(h) through (i) prior to its required completion date.

(c) Following a disclosure pursuant to 310 CMR 7.36(7)(a)4. that a project will be delayed, MassDOT shall submit to the Department a petition to delay the project. Such petition shall include, without limitation, the reasons for project delay, the measures being taken to minimize such delays, the amount of time the project will be delayed, and, if required, identification of the interim offset project or measures that will be implemented pursuant 310 CMR 7.36 (4)(b). Following public review, such petition shall be subject to approval, approval with conditions, or denial by the Department, in writing.

(5) Substitute Transit System Improvement Projects.

(a) Following MassDOT's completion of the requirements of 310 CMR 7.36(2)(h)1. and (3)(a) through (c), MassDOT may propose substitute projects for projects required by 310 CMR 7.36(2)(h)1. and (i) provided that:

(b) Substitute projects shall be projects that enhance or improve existing public transit service, or provide new transit service in the areas listed in 310 CMR 7.36(5)(c) and (d).

(c) Substitute projects proposed for the Fairmount Line project shall be within the Dorchester, Hyde Park, Mattapan, and Roxbury neighborhoods of the City of Boston.

(d) Substitute projects proposed for the Green Line Extension and the Green Line Union Square spur of the Green Line Extension to Medford Hillside shall be within the municipalities of Boston, Cambridge, Somerville, and Medford.

(e) Proposed substitute shall be prioritized for funding in the Regional Transportation Plan for the Boston Region and the Transportation Improvement Program of the Boston MPO.(f) MassDOT shall submit to the Department a proposed project substitution determination that includes the following information:

1. The reasons for seeking a project substitution;

2. The proposed substitute project(s) that will be implemented and a proposed project implementation schedule that meets the requirements of 310 CMR 7.36(2)(h)1. and 310 CMR 7.36(3);

3. A demonstration that the proposed substitute project will achieve 110% of the emission reductions of NMHC, CO and NOx that would have been achieved had all components of the project required by 310 CMR 7.36(2)(h)1. and (i) been completed; and

4. The interim emission reduction offset projects or measures that will be implemented until the substitute project(s) is completed. Such interim emission offset projects or measures shall achieve emission reductions of NMHC, CO and NOx equal to or greater than the emission reductions that would have been achieved had all components of the project been completed by the deadlines established pursuant to 310 CMR 7.36(2)(h)1. and (i).

(g) MassDOT shall conduct a public meeting for the sole purpose of taking public comment on the proposed substitution determination and shall;

1. Provide public notice at least 30 days prior to the public meeting by publishing in a newspaper of general circulation in the Boston and surrounding area and in the *Environmental Monitor* pursuant to 301 CMR 11.15: *Public Notice and the Environmental Monitor* notice of the meeting and of the availability of the material identified in 310 CMR 7.36(5)(f) at the locations specified therein;

2. At least 30 days prior to the public meeting, make available to the public at the City Hall of Boston, Cambridge, Somerville, and Medford and at the State Transportation Library copies of the proposed substitution determination;

3. Following the close of the public comment period, summarize and respond to, in writing, all public comments.

4. Within 90 days following the close of the public comment period pursuant to 310 CMR 7.36(5)(g)1, MassDOT shall assemble and submit to the Department the administrative record, which shall include, without limitation, a copy of:

a. The public notice required pursuant to 310 CMR 7.36(5)(g)1.;

b. All written comments received by MassDOT within the public comment period; and

c. The summary of and response to public comments required pursuant to 310 CMR 7.36(5)(g)3.

(h) Within 90 days of receipt of MassDOT's submittal pursuant to 310 CMR 7.36(5)(g)4., the Department shall determine, in writing, whether the requirements of 310 CMR 7.36(5) have been met and whether the administrative record reasonably supports MassDOT's substitution determination.

(6) <u>Transit System Improvement Studies</u>.

(a) Before December 31, 1991, MassDOT shall draft and issue for public comment an initial study of transit improvement strategies which are in addition to those specified by 310 CMR 7.00, with the intent of incorporating the findings of said study in the Program for Mass Transportation.

(b) Development of the Program for Mass Transportation shall, in addition to the requirements of 310 CMR 7.36(6)(a), include for each strategy identified in 310 CMR 7.36(6)(a), an analysis of the following:

1. An analysis of funding implications and a comprehensive funding plan for transit projects and programs.

2. Estimates of transit project impacts on cities and towns.

3. Discussion of public education efforts that will be undertaken in implementing transit projects.

(c) Before December 31, 1991, MassDOT shall draft and issue for public comment, studies of other transportation system improvements including but not limited to:

1. A study of the feasibility of using toll pricing to regulate single occupant vehicle trips to Logan Airport.

2. A study of the feasibility of relocating some of the existing Sumner Tunnel Toll booth to Route 1A.

3. A study of the feasibility of providing water shuttle service between Boston and communities on the North shore.

4. A study of transit system improvements which could be made in addition to those improvements listed in 310 CMR 7.36(2).

5. A study on the feasibility of constructing a rail connection between South Station and Logan Airport.

6. Expanding the size and number of suburban locations of Logan airport express service parking and transit facilities.

7. Expanding the high occupancy vehicle lanes and services within the boundaries of Logan Airport.

(d) Before December 31, 1994, MassDOT shall draft and issue for public comment a study of transit system improvements including but not limited to:

1. Connecting circumferential transit facilities and radial transit services.

2. Improving travel time and upgrading rail service to New York City, NY; Worcester, MA; Springfield, MA; Hartford, CT and Portland, ME.

3. Indexing transit fares so as to encourage maximum use of transit facilities.

(e) The studies identified in 310 CMR 7.36(6)(a) through (e) shall contain an analysis of the technical feasibility of each measure, an estimate of the time and cost involved in implementing the measure and an estimate of the potential air quality impacts of the measure. After providing an opportunity for final comment and consultation with other members of the Boston Metropolitan Planning Organization and the Department, the studies shall be released as final reports and submitted to the Department by no later than March 30th of the year following the deadline of the draft study. The final reports shall contain a recommendation and schedule for further action to be taken in regard to the measures contained in the studies.

(7) <u>Public Process Requirements</u>.

(a) By July 1st of each year beginning in 2007 and until all projects required by 310 CMR 7.36(2)(f) through (i) and any project implemented pursuant to 310 CMR 7.36(4) and (5) are complete, MassDOT, in consultation with the MBTA, shall develop and submit to the Department an update and status report for each project required by 310 CMR 7.36(2)(f) through (i) and any project implemented pursuant to 310 CMR 7.36(4) and (5). This report shall include:

1. Detailed information on the status of Project Interim Deadline requirements of 310 CMR 7.36(3);

2. Detailed information about project funding including a demonstration that all relevant planning documents, including the Regional Transportation Plan for the Boston Region, the Transportation Improvement Program for the Boston MPO, the MBTA's Program for Mass Transportation, and the MBTA's Capital Investment Program contain adequate funds to comply with the Project Interim Deadline requirements of 310 CMR 7.36(2)(h)1. and (3).

3. Detailed information about any actual or known funding, engineering, or other obstacles to meeting the Project Interim Deadline requirements of 310 CMR 7.36(2)(h)1. and (3) and measures being taken to address those obstacles;

4. Detailed information about any actual or known potential need and reasons for project delays or substitution;

5. Detailed information on any interim offset projects or measures implemented or proposed to be implemented pursuant to 310 CMR 7.36(4)(b) or (5)(g)4, including without limitation an air quality analysis demonstrating that the actual emission reductions meet or will meet the requirements of the delayed project.

(b) Within 75 days of receipt of a report required by 310 CMR 7.36(7)(a), the Department shall conduct a public meeting to take public comment on the report. For each public meeting required by 310 CMR 7.36(7)(b), the Department shall:

1. Provide public notice at least 30 days prior to the public meeting by publishing in a newspaper of general circulation in the Boston and surrounding area and in the *Environmental Monitor* pursuant to 301 CMR 11.15: *Public Notice and the Environmental Monitor* notice of the meeting and the availability of the material identified in 310 CMR 7.36(7)(a) at the locations specified therein; and

2. At least 30 days prior to the public meeting, make available to the public copies of the report required by 310 CMR 7.36(7)(a).

(c) Within 120 days following each public meeting required by 310 CMR 7.36(7)(b), MassDOT shall submit a summary of and response to all public comments and a written certification to the Department, with copies to the U.S. Environmental Protection Agency and the Boston Metropolitan Planning Organization, that:

1. MassDOT has provided complete information for all requirements of 310 CMR 7.36(7)(a).

2. MassDOT has provided complete information about any actual or known potential need and reasons to delay any project required by 310 CMR 7.36(2)(f) through (i);

3. MassDOT has provided complete information about any actual or known potential need and reasons for a project substitution pursuant to 310 CMR 7.36(5); and

4. MassDOT has provided complete information on the interim offset projects implemented or proposed to be implemented pursuant to 310 CMR 7.36(4)(b) and (5)(g)4.

(d) Within 60 days of receipt of MassDOT's annual submission required by 310 CMR 7.36(7)(c), the Department shall make a determination, in writing, whether the public process and other requirements of 310 CMR 7.36(7) were met.

(8) <u>Determination of Air Quality Emission Reductions</u>.

(a) MassDOT shall determine baseline air quality emission reductions by:

1. Calculating the NMHC, CO, and NOx emission reductions that would have been achieved by completion of each of the following projects, using latest planning assumptions and latest air quality emission models: the Green Line Arborway Restoration; the Blue Line Connection from Bowdoin Station to the Red Line at Charles Station; and the Green Line Extension to Ball Square/Tufts University; and

2. Adding 10% to the NMHC, CO, and NOx emission reductions calculated in 310 CMR 7.36(8)(a)1.

(b) MassDOT shall determine the projected emissions reductions in NMHC, CO, and NOx that will be achieved by implementation of each of the projects required by 310 CMR 7.36(2)(h) and (i), using latest planning assumptions and latest air quality emission models.
(c) On or before January 2, 2007, MassDOT shall complete a report with supporting rationale and documentation that includes:

1. A description of the modeling assumptions and analysis methodology employed under 310 CMR 7.36(8)(a) and (b);

2. The total NMHC, CO, and NOx baseline emissions reductions derived pursuant to 310 CMR 7.36(8)(a) for each project;

3. A demonstration that the implementation of the projects required by 310 CMR 7.36(2)(h) and (i) are projected to achieve the total NMHC, CO, and NOx baseline air quality emissions reductions determined under 310 CMR 7.36(8)(a);

4. The total NMHC, CO, and NOx emission reductions as determined by 310 CMR 7.36(8)(b) for each of the projects required by 310 CMR 7.36(2)(h) and (i).

5. If MassDOT concludes that implementation of the projects listed in 310 CMR 7.36(2)(h) and (i) will not achieve the baseline air quality emission reductions established in 310 CMR 7.36(8)(a)1., MassDOT shall implement additional projects to achieve the baseline air quality emission reductions, on a schedule consistent with the deadlines established pursuant 310 CMR 7.36(2)(h) and (i). Such projects shall be implemented in the geographic areas consistent with 310 CMR 7.36(5)(c) and (d). Interim emission reduction offset measures or projects shall be implemented for any period of delay from the project deadlines included in 310 CMR 7.36(2)(h) and (i).

(d) On or before January 2, 2007, MassDOT shall commence a 45-day public comment period on the report required pursuant to 310 CMR 7.36(8)(c) and shall:

1. Provide public notice of the public comment period by publishing in a newspaper of general circulation in the Boston and surrounding area and in the *Environmental Monitor* pursuant to 301 CMR 11.15: *Public Notice and the Environmental Monitor* notice of the availability of the material identified in 310 CMR 7.36(8)(d)2. at the locations specified in 310 CMR 7.36 (8)(d)2.;

2. At the commencement of the public comment period make available to the public at the City Hall of Boston, Cambridge, Somerville, and Medford and at the State Transportation Library the report with supporting rationale, and all information and documentation relied upon to support the results and conclusions of the report; and

3. Following the close of the public comment period summarize and respond to, in writing, all public comments.

(e) On or before March 1, 2007, MassDOT shall assemble and submit to the Department the administrative record, which shall include, without limitation a copy of:

1. The public notice required pursuant to 310 CMR 7.36(8)(d)1.;

2. The report, rationale, information, and documentation required pursuant to 310 CMR 7.36(8)(d)2;

3. All written comments received by MassDOT within the public comment period; and

4. The summary of and response to public comments required pursuant to 310 CMR 7.36(8)(d)3.

(f) Within 90 days of MassDOT's submittal pursuant to 310 CMR 7.36(8)(e), the Department shall determine, in writing, whether MassDOT has met the requirements of 310 CMR 7.36(8)(d) and (e) and whether the administrative record reasonably supports the results and conclusions of the report required pursuant to 310 CMR 7.36(8)(c).

(9) <u>Demonstration of Air Quality Emission Reductions</u>.

(a) When all projects required by 310 CMR 7.36 are substantially complete, as defined in the federal register at *Approval and Promulgation of Air Quality Implementation Plans: Massachusetts – Amendments to Massachusetts*' *SIP*,59 Fed. Reg. 50,495-50,498 (1994), MassDOT shall complete an analysis of the total air quality benefits of such projects. Such analysis shall be performed in accordance with EPA requirements in effect at the time of the analysis.

(b) MassDOT shall submit the air quality analysis required by 310 CMR 7.36(9)(a) to the Department within four months following the substantial completion of all projects.

(c) Within 90 days of MassDOT's submittal pursuant to 310 CMR 7.36(9)(b), the Department shall determine, in writing, whether MassDOT has met the requirements of 310 CMR 7.36(9)(a) and (b).

7.37: MB High Occupancy Vehicle Lanes

(1) <u>Definitions</u>. As used in 310 CMR 7.37:

BASELINE ROADWAY CONDITIONS means the average weekday peak hour trip time in minutes for each roadway segment based on monitoring of traffic and recording of trip times during the 12 month period from April 1, 1992 to April 1, 1993.

<u>FEASIBILITY STUDY</u> means a study which analyzes the environmental, operational, engineering, right-of-way, construction, and financial issues affecting the implementation of high occupancy vehicle lanes on each roadway segment described in 310 CMR 7.37(3). The analysis of environmental issues shall include the impacts of HOV lanes on all mobile source emissions of CO, VOC and NOX as well as the impacts of such lanes on general purpose traffic flow. Operational issues may include enforcement and public safety issues. Notwithstanding the foregoing, in cases in which feasibility studies submitted to the Department on or before November 1, 1994 have not included an analysis of the impact of HOV lanes on NOx emissions, an analysis of such impacts will be submitted to the Department for inclusion in the Transportation Improvement Program for the metropolitan Boston area, as required by 23 CFR 450.

<u>FINANCIAL</u> as used in 310 CMR 7.37(1) and 7.37(8)(a) means the availability of funds from any federal, state or local sources for the design and construction of a high occupancy vehicle lane or facility.

<u>PERFORMANCE STANDARDS</u> means a level of roadway performance that at a minimum: 1. is equal to or better than a Level of Service C, and 2. will result in average HOV trip times that are at least one minute per mile less than average trip times on adjacent general purpose traffic lanes during peak hours of travel, as defined in 310 CMR 7.37(6)(b)2. Either the MHD or the MTA may propose substitute roadway performance standards which attempt to maximize: travel time savings, reductions in emissions of ozone precursors, operational efficiency, and person throughput, and which require vehicle throughput of no less than 400 HOVs per hour for a high occupancy vehicle lane provided that such standard provides for greater improvement in air quality for VOC, CO and NOX in the area where the HOV lane is targeted, in both the short and long term. The Department shall review any proposed substitute roadway performance standard, and shall either reject or accept it within 60 days after it has been submitted to the Department.

<u>ROADWAY THRESHOLD STANDARDS</u> means Baseline Roadway Conditions increased by 35%.

(2) <u>Applicability</u>. 310 CMR 7.37 applies where indicated, to the Executive Office of Transportation and Construction (EOTC), the Massachusetts Highway Department (MHD), and the Massachusetts Turnpike Authority (MTA).

(3) Feasibility Studies.

(a) By December 31, 1992, the MHD shall submit to the Department a study of the feasibility of establishing high occupancy vehicle lanes for the following roadways:

1. The northward extension of the existing southbound high occupancy vehicle lane on Interstate-93, north of the southern bank of the Charles River to I-95;

2. Interstate-93 northbound between the Charles River Crossing and Interstate-95; and

3. Interstate-93 northbound and southbound between Interstate-90 and Route 3 in Braintree.

(b) As part of the environmental review on the Charles River portion of the Central Artery/Tunnel project, the MHD shall complete a study of the feasibility of establishing high occupancy vehicle lanes for the Charles River Crossing. Said study shall be completed within 30 days from the date of the Federal Highway Administration issuance of a Record of Decision in connection with said review.

(c) By June 30, 1994, the MTA shall submit to the Department a study of the feasibility of establishing high occupancy vehicle lanes for Interstate-90 eastbound and westbound between Interstate-93 and Interstate-95. Said study shall include analyses of the feasibility of:

1. Implementing full-scale high occupancy vehicle lanes;

2. Implementing a program of special high occupancy vehicle toll booths and full headof-queue privileges including consideration of establishing specially demarcated lanes leading to high occupancy vehicle toll booths wherever found practical at appropriate turnpike interchanges; and

3. Installing electronic identification systems to facilitate high occupancy vehicle flow through turnpike toll booths.

(4) Implementation of Certain High Occupancy Vehicle Lanes.

(a) If the northward extension of the existing southbound high occupancy vehicle lane on Interstate-93 north of the Charles River is found to be feasible pursuant to the feasibility study to be completed in accordance with 310 CMR 7.37(3)(a), the MHD shall establish the high occupancy vehicle lane and make it available for public use according to a reasonable schedule, as defined in 310 CMR 7.37(4)(d), agreed upon between the Department and the MHD, but in no event later than November 1, 1994. The extension shall be subject to the following conditions:

1. The extension of the high occupancy vehicle lane shall not be accomplished by the addition of a new lane or lanes to Interstate-93.

2. Prior to the lane opening, MHD shall submit to the Department information relating to the length of the lane including a demonstration that the lane has been extended northward to the most appropriate geographical location.

(b) The final design of the Charles River Crossing portion of the Central Artery/Tunnel project on Interstate-93 shall include a high occupancy vehicle lane that shall be made available for public use at the time the Charles River Crossing of the Central Artery/Tunnel project is opened for public use. The high occupancy vehicle facility shall be located southbound on the I-93 mainline between the northernmost point appropriate to maximize use of the lane, and the Charles River crossing bridge. The northernmost terminus of the HOV lane shall be located at a point just south of the Mystic Avenue exit ramp in Medford. (c) If high occupancy vehicle lanes northbound and southbound on Interstate-93 beginning at the intersection of Interstate-93 with Interstate-90 and extending to Route 3 in Braintree are found to be feasible pursuant to the feasibility study performed in accordance with 310 CMR 7.37(3), said high occupancy vehicle lanes shall be implemented and made available for public use according to a reasonable schedule, as defined in 310 CMR 7.37(4)(d), to be agreed upon by the Department and the MHD, but in no event later than November 15, 1995.

(d) A reasonable schedule for implementing a high occupancy vehicle lane shall include starting dates and ending dates of the following:

1. Public review of the feasibility study;

2. Environmental review, including any approvals required under the Massachusetts Environmental Policy Act, M.G.L. c. 30, § 61 *et seq.* or the National Environmental Policy Act, 42 U.S.C. section 4321 *et seq.*;

- 3. Final design approval;
- 4. Acquisition of required right of way; and
- 5. Construction of the high occupancy vehicle lane.

(5) <u>Roadway Threshold Monitoring and Baseline Roadway Conditions.</u>

(a) Beginning April 1, 1992, the MHD and the MTA shall monitor traffic volumes and trip times on the roadway segments identified for the MHD in 310 CMR 7.37(3)(a) and (b) and for the MTA in 310 CMR 7.37(3)(c) on a monthly basis. All records and data shall be maintained for a period of five years and shall be readily available for Department inspection.
(b) By May 1, 1993 the MHD shall complete collection of the information necessary to identify and document Baseline Roadway Conditions for the roadway segments identified in 310 CMR 7.37(3)(a) and (b), and the MTA shall complete collection of such information for the roadway segments identified in 310 CMR 7.37(3)(a) and (b), and the MTA shall complete collection of such information for the roadway segments identified in 310 CMR 7.37(3)(c).

(c) By July 1, 1993, the MHD shall submit to the Department a report that documents the Baseline Roadway Conditions for the roadway segments identified in 310 CMR 7.37(3)(a) and (b), and the MTA shall submit such a report for the roadway segments identified in 310 CMR 7.37(3)(c). The report shall contain appropriate traffic monitoring data and trip time records to support the Baseline Roadway Conditions documented in the report. Within

60 days of receipt of a complete report, the Department shall review the report and take such action as it may deem appropriate. Any action taken on the report shall be in writing. Within 90 days of receipt of a complete report, the Department shall file a copy of the report and of any Department action taken, with the U.S. EPA, Region I and with the agency that filed the report.

(6) Addition of High Occupancy Vehicle Lanes.

(a) Should the Roadway Threshold Standards as defined in 310 CMR 7.37(1) be exceeded for three consecutive months, the MHD, for roadway segments identified in 310 CMR 7.37(3)(a) and the MTA for roadway segments identified in 310 CMR 7.37(3)(c), shall:

1. Notify the Department of the exceedance. The notice shall identify the roadway segment that has exceeded Roadway Threshold Standards and set out a reasonable schedule for implementing high occupancy vehicle lanes on the applicable roadway segment, and

2. Implement a high occupancy vehicle lane on the respective roadway segment according to a reasonable schedule as defined in 310 CMR 7.37(4)(d).

(b) The addition of high occupancy vehicle lanes pursuant to 310 CMR 7.37 shall be subject to the following conditions:

1. Additions of high occupancy vehicle lanes on Interstate-93 northbound and southbound between Interstate-90 and Route 3 in Braintree shall extend onto Route 3 if found feasible through the study conducted pursuant to 310 CMR 7.37(3)(a).

3. All high occupancy vehicle lanes shall be dedicated for exclusive high occupancy vehicle use during peak periods of travel. Peak periods of travel shall:

a. include at a minimum, three hours between the hours of 6:00 A.M. and 10:00 A.M. on the following:

i. the roadway segment described in 310 CMR 7.37(3)(a)1.;

ii northbound lanes of traffic on I-93 between I-90 and a Route 3 in Braintree, and

iii. eastbound lanes of traffic on I-90; and

b. shall also include at a minimum the hours of 3:00 P.M. to 7:00 P.M. on high occupancy vehicle lanes on the following:

- i the roadway segment described in 310 CMR 7.37(3)(a)2.,
- ii southbound lanes of traffic on I-93 between I-90 and Route 3, and

iii westbound lanes of traffic on I-90 demand forecasts.

3. Incorporation of additional high occupancy vehicle lanes shall not be accomplished by the addition of a new lane or lanes to Interstate-93 northbound beginning at the Charles River Crossing and extending north towards Interstate-95.

4. Incorporation of additional high occupancy vehicle lanes shall not be accomplished by the addition of a new lane or lanes to Interstate-90.

(c) Beginning January 1, 1994, the MHD and the MTA shall provide the Department with an annual assessment of the potential for exceedances of the Roadway Threshold Standards. The assessment shall be based on monitoring information collected and traffic projections using a method which has been agreed to in advance through consultation with the Department. The annual assessment shall, at a minimum, forecast when Roadway Threshold Standards will be exceeded on the roadway segments identified for the MHD in 310 CMR 7.37(3)(a) and (b) and for the MTA in 310 CMR 7.37(3)(c). If the Roadway Threshold Standards have already been exceeded as of one month prior to the date of submission of the annual assessment, the annual assessment shall also identify the time of day and travel conditions that were evident when Roadway Threshold Standards were exceeded.

(7) Attainment of Performance Standards.

(a) At the time that a new high occupancy vehicle lane or facility opens for public use, and at the time that any existing high occupancy vehicle lane is expanded, the MHD with respect to the roadway segments identified in 310 CMR 7.37(3)(a), and the MTA with respect to the roadway segments identified in 310 CMR 7.37(3)(c), shall monitor the high occupancy vehicle lane or facility performance, as measured by trip times, during peak periods of travel, to ensure that high occupancy vehicle performance standards are being met. Trip times shall

be measured at least monthly and during at least five sample days each month. Measurements shall be taken on at least one Monday, Tuesday, Wednesday, Thursday and Friday during each month. On each of the sample days, a minimum of two time runs shall be made during peak hours of travel in each direction for each high occupancy vehicle lane roadway segment.(b) The MHD and the MTA shall use all appropriate and feasible measures to maintain compliance with the high occupancy vehicle lane performance standards.

(c) Should high occupancy vehicle lane or facility performance standards for a given roadway segment be violated for 75% of the time runs in a particular month, the agency responsible for the operation of the lane shall file a written report describing the violations with the Department within ten days following the end of the month in which the violation was detected. This report shall describe the violations and shall describe a commitment by the responsible agency to take whatever measures are feasible and necessary to return the high occupancy vehicle lane to compliance with the performance standards, including but not limited to changes in high occupancy vehicle eligibility or high occupancy vehicle facility metering, and measures to increase the use of buses, car-pools and van-pools.

(d) Such reports shall be submitted to the Department for a period of two years following the opening of each HOV lane or facility. Thereafter the MHD and the MTA shall continue to monitor high occupancy vehicle lane and facility performance, to measure trip times as required by 310 CMR 7.37(7)(a), and to maintain records of such monitoring and measurements, and upon written request shall send reports to the Department containing the information and commitments described in 310 CMR 7.37(7)(c), provided however that trip times shall be measured at least quarterly and during at least five sample days each quarter, and provided further that compliance with performance standards during this later period shall be determined on a quarterly basis.

(8) <u>Substitute High Occupancy Vehicle Projects</u>.

(a) Based on the feasibility studies conducted pursuant to 310 CMR 7.37(3), if the MHD or the MTA can demonstrate to the Department that a specific HOV lane listed in 310 CMR 7.37(3) is not feasible due to adverse environmental impacts or associated engineering and financial issues, an alternative project shall be substituted in the following manner:

1. The MHD with respect to the roadway segments identified in 310 CMR 7.37(3)(a) and (b), and the MTA with respect to the roadway segments identified in 310 CMR 7.37(3)(c), must petition the Department to accept a substitute project. All such petitions shall be approved by EOTC prior to submission to the Department. All such petitions shall include a demonstration that the substitute project achieves equal or greater emission reductions of VOC, CO and NO_x from mobile sources, than the installation of an HOV lane, and that said substitute project provides for greater improvement in air quality for VOC, CO and NO_x in the area where the required high occupancy vehicle lane is targeted, in both the short and long terms. Park and ride facilities may be proposed as substitutes for the requirements for HOV lanes pursuant to the substitution provisions of 310 CMR 7.37(8). Any park and ride facilities which have been built to fulfill the requirements of, or are required to be built pursuant to 310 CMR 7.36(2), or are proposed and accepted as substitute projects pursuant to 310 CMR 7.36(2), or are proposed as substitute projects pursuant to 310 CMR 7.36(2).

2. Within 30 days of receipt of a petition and demonstration for project substitution, the Department shall make a determination whether all information necessary for review of said petition has been submitted, and shall notify the project proponent. The Department shall review the petition and shall, after notice and public hearing, accept or reject said petition in writing no later than 90 days after the Department determines that all information necessary to review the petition and demonstration has been submitted.

3. Within 30 days after the Department accepts or rejects such a petition and demonstration for project substitution, the Department shall file a copy of said petition and supporting documentation and a copy of the Department action with U.S. EPA, Region I.

(9) <u>High Occupancy Vehicle Enforcement and Promotion</u>.

(a) By January 31, 1993, the MHD and the MTA shall each prepare and submit to the Department a plan describing the general program for enforcement of the high occupancy

vehicle lane system. These program submittals shall include a commitment to implementation of the enforcement program as defined therein. Within 30 days of receiving the enforcement program plans, the Department shall review and make recommendations regarding the plans. Said recommendations shall be incorporated by the MHD and the MTA into the final enforcement program plan for each agency. Specific enforcement measures applicable to a particular high occupancy vehicle lane shall be identified in the final design phase of the high occupancy vehicle system.

(b) By May 31, 1992, the MHD and the MTA shall prepare and submit to the Department a plan for a general program designed to promote high occupancy vehicle use. Said plan shall be based on a comprehensive review of techniques used to manage or promote high occupancy vehicle use in other locations throughout the United States and Canada. The MHD and the MTA shall, in said program, commit to implementation of selected measures to promote the use of the high occupancy vehicle system of each agency. A specific promotional plan for each roadway segment shall be prepared in conjunction with the final design for each high occupancy vehicle facility.

(10) High Occupancy Vehicle Expansion to the Local Roadway Network.

(a) EOTC and MHD shall encourage the City of Boston to incorporate high occupancy vehicle lanes and non-lane based incentives or mechanisms which promote the use of high occupancy vehicles.

(b) EOTC shall work with the Massachusetts Port Authority to conduct studies of high occupancy vehicle needs at Logan Airport.

(11) <u>Reports Regarding Effects on Air Quality</u>. Within two years from the opening for public use of each HOV lane or substitute project on any of the roadway segments described in 310 CMR 7.37(3), the MHD, for roadway segments described in 310 CMR 7.37(3)(a) and (b), and the MTA for roadway segments described in 310 CMR 7.37(3)(c) shall submit a report to the Department documenting the quantitative effects of such HOV lanes or projects on levels of VOC, CO and NOX in the areas affected. The method of determining the quantitative effects of such HOV lanes or substitute project on air quality shall be determined in consultation with the Department.

(12) <u>HOV Lanes and Substitute Projects Permanent</u>. All HOV lanes built pursuant to 310 CMR 7.37(1) through (7) and all substitute projects implemented pursuant to 310 CMR 7.37(8) shall be permanently operated and maintained by the MHD for all HOV lanes and projects built and implemented by it and by the MTA for all HOV lanes and projects built and implemented by it. Either transportation agency may petition the Department to either reduce or terminate the operation, maintenance or implementation of any HOV lane or substitute project built or implemented by it, by petitioning the Department to build another HOV lane, extend an existing HOV lane, or implement a substitute project by demonstrating that such lane or project will achieve equal or greater emission reductions of VOC, CO and NOX from mobile sources and will provide for greater improvement in air quality for VOC, CO and NOX in both the short and long term. The Department shall act upon such petitions as provided in 310 CMR 7.37(8)(a)2. and 3.

7.38: Certification of Tunnel Ventilation Systems in the Metropolitan Boston Air Pollution Control District

(1) <u>Applicability</u>.

(a) The requirements of 310 CMR 7.38 shall apply to the construction and operation of any tunnel ventilation system for highway projects proposed to be built in the Metropolitan Boston Air Pollution Control District, construction of which begins on or after January 1, 1991, including, but not limited to, the Central Artery/Third Harbor Tunnel project. The requirements of 310 CMR 7.38 apply in addition to requirements to implement guidelines of the Department to ensure comprehensive and systematic air quality analysis of highway projects, and all other review procedures applicable to highway projects pursuant to the State Implementation Plan (SIP), the purpose of said review to ensure the consistency of such projects with the requirements of the SIP. Tunnel ventilation systems subject to 310 CMR 7.38 are not subject to the requirements of 310 CMR 7.02.

(b) Any tunnel ventilation system which, when constructed, is subject to a federal New Source Performance Standard or National Emission Standard for Hazardous Air Pollutants, shall be subject to such standard and shall operate in compliance with such standard.

(2) <u>Preconstruction Certification</u>. No person shall cause, permit or allow the construction of any tunnel ventilation system and project roadway subject to 310 CMR 7.00 without first certifying to the Department, and receiving the Department's written acceptance of such certification, that any tunnel ventilation system, project roadway and roadway network within the project area, when operated in strict accordance with its design, standard operating and standard maintenance procedure, will not:

(a) cause or exacerbate a violation of any National Ambient Air Quality Standard, as set forth at 40 CFR 50, or a Massachusetts Ambient Air Quality Standard as set forth at 310 CMR 6.00; or

(b) cause or exacerbate a violation of the Department's one hour ambient NO_2 guideline of 320 ug/m³; or

(c) result in an actual or projected increase in the total amount of non-methane hydrocarbons measured within the project area when compared with the no-build alternative.

(3) Preconstruction Department Certification Process.

(a) Any proponent of a project subject to 310 CMR 7.38 is required to submit such information sufficient for the Department to review the certification. Such information shall include, but is not limited to, the following:

1. an analysis of the existing and projected non-methane hydrocarbon emissions from the project area, including the emissions from the tunnel ventilation system, the project roadway and the roadway network in the project area;

2. a comparative analysis which quantifies the air quality impact within the project area predicted to occur after the project is built and the no-build alternative;

3. information concerning ventilation building heights and locations, conceptual site plan, design criteria for the proposed ventilation equipment and project roadway, standard operating procedures and standard maintenance procedures for the tunnel ventilation system;

4. an analysis of the projected vehicle miles traveled, average vehicle speeds and vehicle hours that are expected to occur within the project area when the project is completed compared with the projected vehicle miles traveled, projected average vehicle speeds, and projected vehicle hours travelled under the no-build alternative; and

5. an identification and analysis of feasible pollution prevention measures designed to reduce vehicle miles travelled including identification of the available short and long-term measures, commitments to implement said measures, and a schedule for implementing said measures.

(b) The Department shall within 30 days of receipt of a certification required by 310 CMR 7.38(2), make a determination whether all information necessary for review of said certification has been submitted. Upon making this determination, the Department shall notify the project proponent. The Department shall review the certification and shall, after notice and public hearing, accept or reject said certification in writing no later than 90 days after the Department determines that all information necessary to review the certification has been submitted. No construction on a tunnel ventilation system or project roadway shall commence until the certification has been accepted. The Department may impose such conditions on any acceptance of a certification issued pursuant to 310 CMR 7.38(3) as it deems are necessary to meet the criteria of 310 CMR 7.38(2)(a) through (c).

(4) Operating Certification.

(a) Except as provided herein, no person shall operate any tunnel ventilation system or open for general public use any project roadway which is served by a tunnel ventilation system subject to 310 CMR 7.38, without receiving written acceptance of its certification to do so from the Department as provided for in 310 CMR 7.38(3). Any person who has received written acceptance of certification to construct a tunnel ventilation system pursuant to 310 CMR 7.38(3) may commence operation of said tunnel ventilation system and open the project roadway to general public use for a period not to exceed 18 months, provided that said person submits to the Department an operating certification. Said operating certification submission shall be no earlier than 12 nor later than 15 months after the commencement of full operation of said tunnel ventilation system or opening of the project roadway for general public use. Any operating certification shall demonstrate that the operation of the tunnel ventilation system shall, at a minimum, be in strict accordance with the certification criteria set forth in 310 CMR 7.38(2)(a) through (c) and the certification accepted by the Department pursuant to 310 CMR 7.38(3) as demonstrated through actual measured emissions and traffic data, or other approaches allowed by 310 CMR 7.38(8)(a).

(b) In addition to the demonstration of compliance with the certification criteria set forth in 310 CMR 7.38(2)(a) through (c) and the certification accepted by the Department pursuant to 310 CMR 7.38(3), the operating certificate submittal shall include a contingency plan consisting of measures which could be implemented in cases of exceedence of the emission limitations in the certification. Said contingency plan shall identify available contingency measures including, but not limited to, alternative tunnel ventilation system operations and maintenance, and transportation control measures; a commitment for implementing said measures; a schedule for implementing measures on a days-to-full effectiveness basis; and an analysis of the daily air quality impact of the measures on the emissions from the tunnel ventilation system and within the project area.

(c) Any operating certification accepted by the Department pursuant to 310 CMR 7.38(4) shall remain in effect for five years from the date of acceptance and shall contain such conditions as the Department deems necessary to meet the certification criteria established in 310 CMR 7.38(2)(a) through (c) Any operating certification accepted by the Department pursuant to 310 CMR 7.38(4) shall be subject to renewal upon application to the Department. The Department shall apply the same criteria that apply to the acceptance of pre-construction certification and the initial operating certification, or renewal of an operating certification. The requirement to obtain an operating certification, or renewal thereof, shall be in addition to the certification required in 310 CMR 7.38(2).

(5) <u>Operating Certification Department Process</u>. The Department shall, within 30 days of receipt of an initial operating certification or renewal of an operating certification required by 310 CMR 7.38(4), make a determination whether all information necessary for review of said certification has been submitted. Upon making this determination, the Department shall notify the project proponent. The Department shall review the certification and shall, after notice and public hearing, accept or reject said certification in writing no later than 90 days after the Department determines that all information necessary to review the certification has been submitted. The Department may impose such conditions on any acceptance of a certification issued pursuant to 310 CMR 7.38(5) as it deems are necessary to meet the criteria of 310 CMR 7.38(2)(a) through (c) and of the certification accepted pursuant to 310 CMR 7.38(3).

7.38: continued

(6) Mitigation Plan Review and Acceptance.

(a) If the Department finds, based upon a review of information submitted by the operator in support of any operating certification, and such other information as the Department has available to it, that one or more of the criteria set forth in 310 CMR 7.38(2)(a) through (c) or established in the acceptance of the certification pursuant to 310 CMR 7.38(3) through (5) are being violated, or are likely to be violated within the period for which the operating certification is valid, the operator of the tunnel ventilation system shall:

1. Implement the measures identified in the contingency plan submitted and accepted as part of the initial operating certificate pursuant to 310 CMR 7. 38(4), and necessary,

2. Within four months after being notified of such a finding, submit to the Department for review and approval a mitigation plan which identifies specific measures the operator intends to implement to bring the tunnel ventilation system and associated project area into compliance with criteria set forth in 310 CMR 7.38(2)(a) through (c) and the conditions of the Department's acceptance of the certification set forth in 310 CMR 7.38(3) through (5). The mitigation plan shall at minimum contain the following:

a. a study that identifies the factors which are causing or contributing to the violation identified in any notice by the Department issued under 310 CMR 7.38(6);
b. identification and an affirmative demonstration of specific measures which will result in compliance with the criteria in 310 CMR 7.38(2)(a) through (c), and the Departments acceptance of the certification issued pursuant to 310 CMR 7.38(3) through (5).

c. a demonstration of adequate funding mechanisms for implementation of said measures; and

d. a schedule for implementing said measures.

(b) A mitigation plan submitted pursuant to 310 CMR 7.38(6) shall include examination of measures which address the operation of the ventilation system as well as examination of measures which address operation of the tunnel roadway and roadway network within the project area. The latter shall include, but not be limited to:

- 1. improvements in public transit,
- 2. programs to increase the use of high occupancy vehicles,
- 3. restriction of additional roads or lanes to high-occupancy vehicles,
- 4. employer-based transportation demand management plans,
- 5. expansion of fringe and transportation corridor parking facilities,
- 6. programs to limit or restrict vehicle use in downtown areas or other areas of high emission concentration particularly during periods of peak use,
- 7. ridesharing programs, and

8. other measures to shift demand to non-automotive modes of travel or to increase vehicle occupancy rates.

(c) The Department shall, within 30 days of receipt of the mitigation plan, make a determination that all information necessary for review of said plan has been submitted. Upon making this determination, the Department shall notify the project proponent. The Department shall review the mitigation plan and shall, after notice and public hearing, accept, or reject said plan in writing no later than 90 days after the Department determines that all information necessary to review the plan has been submitted. The Department may impose such conditions on any acceptance of the plan prepared pursuant to 310 CMR 7.38(6) as it deems are necessary to meet the criteria of 310 CMR 7.38(2)(a) through (c) and of the certification accepted pursuant to 310 CMR 7.38(3) through (5). The terms of the accepted plan shall be incorporated into the operating certification for the applicable renewal period.

7.38: continued

(7) <u>Review of Operations</u>. If at any time the Department finds that one or more of the criteria set forth in 310 CMR 7.38(2)(a) through (c) or the criteria established in the acceptance of certification issued pursuant to 310 CMR 7.38(3) through (5) is not being met, the Department may order the operator to implement the contingency measures and to submit a mitigation plan as set forth in 310 CMR 7.38(6) to bring the operation of the tunnel ventilation system into compliance with said criteria. Any plan submission made pursuant to 310 CMR 7.38(7) shall contain the same elements as required pursuant to 310 CMR 7.38(5) and (6) as well as such other information as the Department may require.

(8) <u>Compliance Monitoring</u>. Any person who constructs and operates a tunnel ventilation system on or after January 1,1991 shall comply with the following monitoring requirements:

(a) <u>Emissions Monitoring</u>. Any person who constructs and operates a tunnel ventilation system which is subject to the requirements of 310 CMR 7.38 shall, prior to commencing operation of the tunnel ventilation system or opening the project roadway for public use, develop and submit to the Department for review and approval an "Air Emissions Monitoring Protocol" and shall install and operate emissions monitoring and recording equipment in accordance with the approved protocol. Monitoring as approved by the Department shall be required at the exhaust stacks or exhaust plenums of ventilation buildings as well as at exit portals that utilize longitudinal ventilation. The Department will consider for approval hybrid monitoring systems that incorporate elements of the federal regulations for monitoring ambient air pollution, for monitoring stationary source emissions, and for pollutant emission trading (i.e., 40 CFR Parts 58, 60, and 75) as practicable, as well as statistical analysis, computer modeling, and innovative technologies. The "Air Emissions Monitoring Protocol" may also be modified with prior written approval of the Department. (b) <u>Traffic Monitoring</u>. Any person who constructs and operates a tunnel ventilation system which is subject to the requirements of 310 CMR 7.38 shall install, operate and maintain traffic monitoring equipment within the project area, the numbers and locations of which shall be determined in consultation with the Department.

(9) <u>Record Keeping and Reporting</u>.

(a) Any person who constructs and operates a tunnel ventilation system on or after January 1, 1991 shall comply with the following record keeping and reporting requirements:

1. All records and data from the continuous emissions monitors, recorders and traffic monitors shall be maintained for a period of five years. The most recent two years of data shall be readily available for Department inspection.

2. <u>Emissions Reporting</u>. For the first year of operations monthly reports shall be filed with the Department no later than 30 days following the end of the preceding calendar month. Said monthly reports shall contain a summary of continuous monitoring data showing any excursions from allowable emission limitations contained in the Department's acceptance of the certification. In the event any of the reported data shows an excursion of the emission limitations set forth in the acceptance of certification, a written explanation of any excursion shall be included. Evidence of each calibration event on the monitoring devices shall be included in such monthly reports.

3. <u>Traffic Reporting</u>. For the first year of operation monthly reports shall be filed with the Department no later than 30 days following the end of the preceding calendar month. Said monthly reports shall contain a summary of average daily and peak hour counts of vehicle miles travelled as well as average daily and peak hour vehicle speeds and vehicle hours travelled as identified through the traffic monitoring network established pursuant to 310 CMR 7.38(8).

4. <u>Tunnel Ventilation System Maintenance</u>. For the first year of operations monthly reports shall be filed with the Department no later than 30 days following the end of the preceding calendar month. Said monthly reports shall contain a summary of routine maintenance checks performed, repairs of ventilation equipment, amount of time during which ventilation equipment was not operating in accordance with standard operating procedures and measures taken to remedy this situation.

7.38: continued

(b) After the first year of operation, the reports required by 310 CMR 7.38(9) shall be submitted to the Department on a quarterly basis, with the first such quarterly report being due no later than 30 days after the end of the quarter and every three months thereafter.

(10) <u>Removal of Air Pollution Control and Monitoring Equipment</u>. No person shall cause, suffer, allow, or permit the removal, alteration or shall otherwise render inoperative any air pollution control equipment or equipment used to monitor emissions or operations which has been installed as a requirement of 310 CMR 7.38, other than for routine maintenance periods or unexpected and unavoidable failure of the equipment, provided that the Department is notified of such failure. For the purpose of 310 CMR 7.38(10), the term, air pollution control equipment, shall mean the tunnel ventilation system as defined in 310 CMR 7.00.

(11) <u>Public Participation</u>. The purpose of the public hearings provided for in 310 CMR 7.38 shall be to allow any person to make their views known to the Department. Such a hearing shall not be adjudicatory in nature, but shall be in the nature of a public forum for the presentation of any comment that may be relevant to the consideration of a request for acceptance of pre-construction certification, operating certification, renewal of operating certification or acceptance of a mitigation plan. Any decision related to the review and acceptance or rejection of a preconstruction certification; review, acceptance or rejection of a noperating certification; or review, acceptance or rejection of the renewal of an operating certification; or review, acceptance or rejection of a mitigation plan in accordance with the provisions of 310 CMR 7.38, is not an adjudicatory proceeding within the meaning of M.G.L. c. 30A.

7.40: U Low Emission Vehicle Program

(1) U Applicability and Definitions.

(a) Under the authority of 42 U.S.C. 7507, M.G.L. c. 111, §§ 142A through 142M, and M.G.L. c. 21N the Department hereby adopts the California Code of Regulations sections cited in 310 CMR 7.40(1)(c): *Table 1* and *Table 2*.

(b) <u>Definitions</u>. When used in 310 CMR 7.40 or in communications, notices or orders relative thereto, the following words and phrases shall have the meanings ascribed to them below:

Add-on Part. As defined in Title 13 CCR § 1900.

<u>Aftermarket Part</u>. Any part of a motor vehicle emission control system sold for installation on a vehicle after the original retail sale of the vehicle.

California ARB. The California Air Resources Board.

<u>California ARB Executive Order</u>. A document issued by the California ARB certifying that a specified engine family, test group or model year vehicle has met all applicable Title 13 CCR requirements for certification and sale in California.

<u>California Code of Regulations</u> or <u>CCR</u>. The official compilation and publication of the regulations adopted, amended or repealed by California state agencies pursuant to the California Administrative Procedure Act.

Community-based Clean Mobility Program. A program that:

(a) provides access to clean mobility solutions other than vehicle ownership including ZEV car sharing, ride-sharing, vanpools, ride-hailing, or on-demand first-mile/last-mile services; (b) serves a community in which at least 75% of the census block groups in the project area (where community residents live and services operate) are: a disadvantaged community, as defined in Massachusetts by 310 CMR 7.40(1)(b), a low-income community, as defined in Massachusetts by 310 CMR 7.40(1)(b), or a tribal community regardless of federal recognition; and

(c) is implemented by a community-based organization; Native American Tribal government regardless of federal recognition; or a public agency or nonprofit organization that has received a letter of support from a project-related community-based organization or local community group that represents community members that will be impacted by the project or has a service background related to the type of project.

Consolidated Part. As defined in Title 13 CCR § 1900.

Disadvantaged Community.

- (a) A Neighborhood that meets one or more of the following criteria:
 - 1. the annual median household income is not more than 65% of the statewide annual median household income;
 - 2. minorities comprise 40% or more of the population;
 - 3. 25% or more of households lack English language proficiency;
 - 4. minorities comprise 25% or more of the population and the annual median household income of the municipality in which the neighborhood is located does not exceed 150% of the statewide annual median household income; or

(b) a geographic portion of a Neighborhood designated by the Secretary as an Environmental Justice Population pursuant to M.G.L. c. 30, § 62; provided, however, that a Neighborhood or a geographic portion of a Neighborhood that the Secretary has determined shall not be designated an Environmental Justice Population pursuant to M.G.L. c. 30, § 62 shall not be considered an Environmental Justice Population.

<u>Emergency Vehicle</u>. Any publicly owned vehicle operated by a peace officer in performance of their duties, any authorized emergency vehicle used for fighting fires or responding to emergency fire calls, any publicly owned authorized emergency vehicle used by an emergency medical technician or paramedic, or used for towing or servicing other vehicles, or repairing damaged lighting or electrical equipment, any motor vehicle of mosquito abatement, vector control, or pest abatement agencies and used for those purposes, or any ambulance used by a private entity under contract with a public agency.

<u>Emission Control Label</u>. A paper, plastic, metal or other permanent material, welded, riveted or otherwise permanently attached to an area within the engine compartment (if any) or to the engine in such a way that it will be visible to the average person after installation of the engine.

Emissions-related Part. As defined in Title 13 CCR § 1900.

<u>Environmental Performance Label</u>. A decal securely affixed by the manufacturer to a window of vehicles which discloses information for the vehicle in accordance with Title 13 CCR § 1965.

<u>Executive Officer</u>. The Executive Officer of the California ARB or the Executive Officer's authorized representative.

<u>Federal Fuel Economy and Environment Label</u>. A label that is affixed by the manufacturer to a window on passenger cars, light-duty trucks, and medium-duty passenger vehicles in accordance with 40 CFR Parts 85, 86 and 600 as promulgated on July 6, 2011.

<u>Financial Assistance Program</u>. A vehicle purchase incentive program where approved dealerships accept a point-of-sale incentive for used ZEVs and PHEVs for lower-income consumers. Qualifying programs include the Massachusetts Offers Rebates for Electric Vehicles (MOR-EV), or successor or other State programs that the Department determines meet the <u>Financial Assistance Program</u> definition.

Greenhouse Gas. As defined in Title 13 CCR § 1961.3(f).

Heavy-duty Engine. As defined in Title 13 CCR § 1900.

Heavy-duty Vehicle. As defined in Title 13 CCR § 1900.

Independent Low Volume Manufacturer. As defined in Title 13 CCR § 1900.

Intermediate Volume Manufacturer. As defined in Title 13 CCR § 1900.

Large Volume Manufacturer. As defined in Title 13 CCR § 1900.

Light-duty Truck. As defined in Title 13 CCR § 1900.

<u>Low-income Community</u>. A census block group in which the annual median household income is not more than 65% of the statewide annual median household income.

<u>Mailout</u>. A widely distributed general correspondence issued by the California ARB whenever said Board needs information from the public, or when it wishes to inform the public of new information.

<u>Manufacturer</u>. Any small volume manufacturer, intermediate volume manufacturer or large volume motor vehicle manufacturer which offers, delivers or arranges for the delivery of new motor vehicles for sale or lease in Massachusetts.

<u>Manufacturers Advisory Correspondence</u>. A document issued by the California ARB which is a policy interpretation for further clarification of the CCR.

<u>Massachusetts Emission Control Waiver</u>. An exemption from the requirements of 310 CMR 7.40 granted by the Department in conjunction with the MassDOT Registry of Motor Vehicles Division pursuant to M.G.L. c. 90, § 2.

Medium-duty Passenger Vehicle. As defined in Title 13 CCR § 1900.

Medium-duty Vehicle. As defined in Title 13 CCR § 1900.

<u>Model Year</u>. A manufacturer's annual production period which includes January 1st of a calendar year or, if the manufacturer has no annual production period, the calendar year. In the case of any vehicle manufactured in two or more stages, the time of manufacture shall be the date of completion of the chassis.

Modified Part. As defined in Title 13 CCR § 1900.

<u>Motor Vehicle</u> or <u>Vehicle</u>. Any passenger car, light-duty truck, medium-duty passenger vehicle, medium-duty vehicle or heavy-duty vehicle as appropriate.

<u>Motor Vehicle Pollution Control System</u>. The combination of emissions-related parts which controls air pollutant emissions from a motor vehicle or motor vehicle engine.

Near-zero-emission vehicle (NZEV). As defined in Title 13 CCR § 1963(c).

New Vehicle. Any vehicle with 7,500 miles or fewer on its odometer.

Passenger Car. As defined in Title 13 CCR § 1900.

Placed in Service. As defined in Title 13 CCR § 1962.1(i).

<u>Recall</u>. A manufacturer's issuing of notices directly to consumers that vehicles in their possession or control should be corrected or a manufacturer's efforts to actively locate and correct vehicles in the possession or control of consumers.

<u>Recall Campaign</u>. The plan approved by the California ARB or the Department, by which the manufacturer will effect the recall of noncomplying vehicles.

Replacement Part. As defined in Title 13 CCR § 1900.

Small Volume Manufacturer. As defined in Title 13 CCR § 1900.

<u>Smog Index Label</u>. A decal securely affixed by the manufacturer to a window of all 2001 through 2009 model year passenger cars and light-duty trucks which discloses the smog index for the vehicle in accordance with Title 13 CCR 1965 and the "California Motor Vehicle Emission Control and Smog Index Label Specifications".

<u>Test Vehicle</u>. An experimental or prototype motor vehicle which appears to have very low emission characteristics or a used motor vehicle within which an experimental motor vehicle pollution control device is installed, and which has also received a test vehicle or fleet permit from the California ARB pursuant to Manufacturers Advisory Correspondence No. 8301.

Zero Emission Vehicle (ZEV). As defined in Title 13 CCR § 1962.2 for Advanced Clean Cars I, Title 13 CCR § 1962.4 for Advanced Clean Cars II and Title 13 CCR § 1963(c) for Advanced Clean Trucks.

(c) Wherever 310 CMR 7.40 refers to a specific section of the CCR, the reference is made to that version of the section as of the operative/effective date provided for that section in 310 CMR 7.40(1)(c): *Table 1* or *Table 2*. The Department hereby incorporates by reference each of the sections of Titles 13 and 17 CCR that are listed in 310 CMR 7.40(1)(c): *Table 1* and *Table 2*. Wherever 310 CMR 7.40 refers to Titles 13 or 17 CCR without a reference to a specific section of the CCR, the reference is made to all those sections listed in, and that version of those sections as of the operative/effective dates provided for in, 310 CMR 7.40(1)(c): *Table 1* or *Table 2*, respectively.

Title 13 CCR	Title	Section Operative/ Effective Date in California
Division 3. Air Rese	ources Board.	
CHAPTER 1. Moto	or Vehicle Pollution Control Devices.	
Article 1. General P	rovisions.	
1900	Definitions.	12/22/21
Article 2. Approval of Motor Vehicle Pollution Control Devices (New Vehicles).		
1956.8	Exhaust Emissions Standards and Test Procedures - 1985 and Subsequent Model Heavy-duty Engines and Vehicles, 2021 and Subsequent Zero-emission Powertrains, and 2022 and Subsequent Model Heavy-duty Hybrid Powertrains.	12/22/21
1960.1	Exhaust Emissions Standards and Test Procedures - 1981 through 2006 Model Passenger Cars, Light-duty Trucks and Medium-duty Vehicles.	12/31/12
1960.1.5	Optional NO_x Standards for 1983 and Later Model Passenger Cars, and Light-duty Trucks and Medium-duty Vehicles Less than 4000 Lbs. Equivalent Inertia Weight (EIW) or 3751 Lbs. Loaded Vehicle Weight (LVW).	9/30/91
1960.5	Certification of 1983 and Subsequent Model-year Federally Certified Light-duty Motor Vehicles for Sale in California.	10/16/02
1961	Exhaust Emission Standards and Test Procedures – 2004 through 2019 Model Passenger Cars, Light-duty Trucks, and Medium- duty Vehicles.	12/31/12

310 CMR 7.40(1)(c): *Table 1*

Title 13 CCR	Title	Section Operative/ Effective Date in California
1961.1	Greenhouse Gas Exhaust Emission Standards and Test Procedures – 2009 through 2016 Model Passenger Cars, Light- duty Trucks, and Medium-duty Vehicles.	8/7/12
1961.2	Exhaust Emission Standards and Test Procedures – 2015 through 2025 Model Year Passenger Cars and Light-duty Trucks, and 2015 through 2028 Model Year Medium-duty Vehicles.	11/30/22
1961.4	Exhaust Emission Standards and Test Procedures - 2026 and Subsequent Model Year Passenger Cars, Light-duty Trucks, and Medium-duty Vehicles.	11/30/22
1961.3	Greenhouse Gas Exhaust Emission Standards and Test Procedures 2017 and Subsequent Model Passenger Cars, Light-duty Trucks, and Medium-duty Passenger Vehicles.	11/30/22
1962(a), (b), (c), (d), (e), (f), (g)(1- 7), (h), (i), (j)	Zero-emission Vehicle Standards for 2005 through 2008 Model Year Passenger Cars, Light-duty Trucks, and Medium-duty Vehicles, Including California Exhaust Emission Standards and Test Procedures for 2005 through 2008 Model Zero-emission Vehicles, and 2001through 2008 and Subsequent Model Hybrid Electric Vehicles, in the Passenger Car, Light-duty Truck and Medium-duty Vehicle Classes, except for § C.7 and 8.	2/13/10
1962.1(a), (b), (c), (d), (f), (g)(1-7), (h), (i), (j), (l)	Zero-emission Vehicle Standards for 2009 through 2017 Model Year Passenger Cars, Light-duty Trucks, and Medium-duty Vehicles, Including California Exhaust Emission Standards and Test Procedures for 2009 through 2017 Model Zero-emission Vehicles Hybrid Electric Vehicles, in the Passenger Car, Light-duty Truck and Medium-duty Vehicle Classes, except for § C.7 and 8.	1/1/16
1962.2(a), (b), (c), (d), (g)(1) through (7), (h), (i), (j), (l)	Zero-emission Vehicle Standards for 2018 through 2025 Model Year Passenger Cars, Light duty Trucks, and Medium duty Vehicles, Including California Exhaust Emission Standards and Test Procedures for 2018 and Subsequent Model Zero emission Vehicles and Hybrid Electric Vehicles, in the Passenger Car, Light duty Truck and Medium duty Vehicle Classes, except for § C.7 and 8.	11/30/22
1962.3	Electric Vehicle Charging Requirements.	11/30/22
1962.4(a) through (m)(2), (n) and (o)	Zero-emission Vehicle Standards for 2026 and Subsequent Model Year Passenger Cars and Light-duty Trucks.	11/30/22
1962.5	Data Standardization Requirements for 2026 and Subsequent Model Year Light-duty Zero Emission Vehicles and Plug-in Hybrid Electric Vehicles.	11/30/22
1962.6	Battery Labeling Requirements.	11/30/22
1962.7	In-use Compliance, Corrective Action and Recall Protocols for 2026 and Subsequent Model Year Zero-emission and Plug-in Hybrid Electric Passenger Cars and Light-duty Trucks.	11/30/22
1962.8	Warranty Requirements for Zero-emission and Batteries in Plug-in Hybrid Electric 2026 and Subsequent Model Year Passenger Cars and Light-duty Trucks.	11/30/22
1963	Advanced Clean Trucks Purpose, Applicability, Definitions, and General Requirements.	3/15/21

Title 13 CCR	Title	Section Operative/ Effective Date in California
1963.1	Advanced Clean Trucks Deficits.	3/15/21
1963.2	Advanced Clean Trucks Credit Generation, Banking, and Trading.	3/15/21
1963.3	Advanced Clean Trucks Compliance Determination.	3/15/21
1963.4	Advanced Clean Trucks Reporting and Recordkeeping.	3/15/21
1963.5(a)(1) through (3)	Advanced Clean Trucks Enforcement.	3/15/21
1964	Special Test Procedures for Certification and Compliance – New Modifier Certified Motor Vehicles.	2/23/90
1965	Emission Control, Smog Index, and Environmental Performance Labels – 1979 and Subsequent Model-year Motor Vehicles.	11/30/22
1968.1	Malfunction and Diagnostic System Requirements – 1994 and Subsequent Model-year Passenger Cars, Light-duty Trucks and Medium-duty Vehicles and Engines.	11/27/99
1968.2	Malfunction and Diagnostic System Requirements - 2004 and Subsequent Model-year Passenger Cars, Light-duty Trucks, and Medium-duty Vehicles and Engines.	11/30/22
1971.1	On-board Diagnostic System Requirements - 2010 and Subsequent Model-year Heavy-duty Engines.	12/22/21
1976	Standards and Test Procedures for Motor Vehicle Fuel Evaporative Emissions.	11/30/22
1978	Standards and Test Procedures for Vehicle Refueling Emissions.	11/30/22
Article 6. Emissi	on Control System Warranty.	
2035	Purpose, Applicability, and Definitions.	12/22/21
2036	Defects Warranty Requirements for 1979 Through 1989 Model Passenger Cars, Light-duty Trucks, and Medium-duty Vehicles; 1979 and Subsequent Model Motorcycles and Heavy-duty Vehicles; and Motor Vehicle Engines Used in Such Vehicles; and 2020 and Subsequent Model Year Trailers.	12/22/21
2037	Defects Warranty Requirements for 1990 and Subsequent Model Passenger Cars, Light-duty Trucks, Medium-duty Vehicles, and Motor Vehicle Engines Used in Such Vehicles.	11/30/22
2038	Performance Warranty Requirements for 1990 and Subsequent Model Passenger Cars, Light-duty Trucks, and Medium-duty Vehicles and Motor Vehicle Engines Used in Such Vehicles.	11/30/22
2039	Emissions Control System Warranty Statement.	12/26/90
2040	Vehicle Owner Obligations.	10/1/19
2041	Mediation; Finding of Warrantable Condition.	12/26/90
	lures for Certifying Used Modifier-certified Motor Vehicles and Licens Vehicle Emission Test Laboratories.	sing Require-
2047	Certification Procedures for Used Modifier-certified Motor Vehicles.	5/31/88

Title 13 CCR	Title	Section Operative/ Effective Date in California
CHAPTER 2.	Enforcement of Vehicle Emission Standards and Surveillance Testing.	
Article 1. Asse	mbly-line Testing.	
2061	Assembly-line Test Procedures - 1983 and Subsequent Model Years.	10/23/96
2062	Assembly-line Test Procedures - 1998 and Subsequent Model Years.	8/7/12
	Forcement of Vehicle Emission Standards and Surveillance Testing for 20 sequent Model Year Heavy-duty Engines and Vehicles.	005 and
2065	Applicability of Chapter 2 to 2005 and Subsequent Model Year Heavy-duty Engines and Vehicles.	4/1/19
Article 2. Enfo	rcement of New and In-use Vehicle Standards.	
2101	Compliance Testing and Inspection -New Vehicle Selection, Evaluation, and Enforcement Action.	11/27/99
2106	New Vehicle Assembly-line Inspection Testing.	11/27/99
2107	Assembly-line Quality-audit Testing.	11/27/99
2108	Order of Executive Officer.	12/30/83
2109	New Vehicle Recall Provisions.	12/30/83
2110	Remedial Action for Assembly-line Quality Audit Testing of Less Than a Full Calendar Quarter of Production Prior to the 2001 Model Year.	11/27/99
Article 2.1 Pro	cedures for In-use Vehicle Voluntary and Influenced Recalls.	
2111	Applicability.	12/22/21
2112	Definitions.	11/30/22
2113	Initiation and Approval of Voluntary and Influenced Emission-related Recalls.	12/22/21
2114	Voluntary and Influenced Recall Plans.	12/22/21
2115	Eligibility for Repair.	12/22/21
2116	Repair Label.	12/22/21
2117	Proof of Correction Certificate.	12/22/21
2118	Notification.	12/22/21
2119	Recordkeeping and Reporting Requirements.	12/22/21
2120	Other Requirements Not Waived.	1/26/95
2121	Penalties.	12/22/21
Article 2.2. Pro	ocedures for In-use Vehicle Ordered Recalls.	
2122	General Provisions.	12/8/10
2123	Initiation and Notification of Ordered Emission-related Recalls.	12/22/21
2124	Availability of Public Hearing.	1/26/95
2125	Ordered Recall Plan.	12/22/21

Title 13 CCR	Title	Section Operative/ Effective Date in California
2126	Approval and Implementation of Recall Plan.	12/22/21
2127	Notification of Owners.	12/22/21
2128	Repair Label.	12/22/21
2129	Proof of Correction Certificate.	12/22/21
2130	Capture Rates and Alternative Measures.	12/22/21
2131	Preliminary Tests.	12/22/21
2132	Communication with Repair Personnel.	1/26/95
2133	Recordkeeping and Reporting Requirements.	12/22/21
2134	Penalties.	1/26/95
2135	Extension of Time.	1/26/95
Article 2.3. In-us	e Vehicle Enforcement Test Procedures.	
2136	General Provisions.	12/8/10
2137	Vehicle, Engine, and Trailer Selection.	12/22/21
2138	Restorative Maintenance.	11/27/99
2139	Testing.	11/30/22
2140	Notification and Use of Test Results.	11/30/22
Article 2.4. Proce	edures for Reporting Failures of Emission-related Components.	
2141	General Provisions.	12/22/21
2142	Alternative Procedures.	12/22/21
2143	Failure Levels Triggering Recall and Corrective Action.	12/22/21
2144	Emission Warranty Information Report.	12/22/21
2145	Field Information Report.	12/22/21
2146	Emissions Information Report.	12/22/21
2147	Demonstration of Compliance with Emission Standards.	11/30/22
2148	Evaluation of Need for Recall.	12/22/21
2149	Notification and Subsequent Action.	12/22/21
Article 3. Surveil	llance Testing.	
2150	Assembly-line Surveillance.	12/30/83
2151	New Motor Vehicle Dealer Surveillance.	12/30/83
2152	Surveillance of Used Cars at Dealerships.	12/30/83
Article 5. Proced Action.	ures for Reporting Failures of Emission-Related Equipment and F	Required Corrective
2166	General Provisions.	12/22/21
2166.1	Definitions.	12/22/21

Title 13 CCR	Title	Section Operative/ Effective Date in California
2167	Required Recall and Corrective Action for Failures of Exhaust After-treatment Devices, Onboard Computers or Systems, Urea Dosers, Hydrocarbon Injectors, Exhaust Gas Recirculation Valves, Exhaust Gas Recirculation Coolers, Turbochargers, Fuel Injectors.	12/22/21
2168	Required Corrective Action and Recall for Emission-Related Component Failures.	12/22/21
2169	Required Recall or Corrective Action Plan.	12/22/21
2169.1	Approval and Implementation of Corrective Action Plan.	12/22/21
2169.2	Notifications of Owners.	12/22/21
2169.3	Repair Label.	12/22/21
2169.4	Proof of Correction Certificate.	12/22/21
2169.5	Preliminary Tests.	12/22/21
2169.6	Communication with Repair Personnel.	12/22/21
2169.7	Recordkeeping and Reporting Requirements.	12/22/21
2169.8	Extension of Time.	12/22/21
Chapter 4. Criter	ia for the Evaluation of Motor Vehicle Pollution Control Devices and	Fuel Additives.
Article 2. Afterm	narket Parts.	
2221	Replacement Parts.	12/30/83
2222	Add-on Parts and Modified Parts	8/16/90
2224	Surveillance.	1/1/22

310 CMR 7.40(1)(c): *Table 2*

Title 17 CCR	Title	Section Operative/ Effective Date in California	
Division 3. Air Reso	urces.		
CHAPTER 1. Air Re	esources Board.		
Subchapter 10. Clim	Subchapter 10. Climate Change.		
Article 4. Regulation	ns to Achieve Greenhouse Gas Emission Reductions.		
Subarticle 12. Greenhouse Gas Emission Requirements for New 2014 and Subsequent Model Heavy-duty Vehicles.			
95660	Purpose.	12/5/14	
95661	Applicability.	12/5/14	
95662	Definitions.	4/1/19	
95663	Greenhouse Gas Exhaust Emission Standards and Test Procedures for New 2014 and Subsequent Model Heavy-duty Vehicles.	4/1/20	

(d) 310 CMR 7.40 is applicable to manufacturers and to persons who place in service, deliver for sale, sell, lease, offer for sale or lease, import, deliver, purchase, rent, acquire or receive, motor vehicles and motor vehicle engines in or into Massachusetts and are regulated by the following current programs:

- 1. Advanced Clean Cars I consisting of:
 - a. Low Emission Vehicle Program III as described in Title 13 CCR for:
 - i. Criteria pollutants is applicable for model years 2015 through 2025;
 - ii. Greenhouse gas pollutants is applicable starting with model year 2017; and

b. Zero Emission Vehicle Program as described in Title 13 CCR is applicable for model years 2018 through 2025.

2. Greenhouse Gas Exhaust Emission Standards and Test Procedures as described in Titles 13 and 17 CCR is applicable starting with model year 2025.

3. Advanced Clean Trucks as described in Title 13 CCR is applicable starting with model year 2025; early action credits as described in Advanced Clean Trucks may be earned starting with model year 2021.

4. Heavy duty Omnibus as described in Title 13 CCR is applicable starting with model year 2025; NOx credits as described in Heavy duty Omnibus may be earned starting with model year 2022.

5. Advanced Clean Cars II consisting of:

a. Low Emission Vehicle Program IV as described in Title 13 CCR for criteria pollutants is applicable starting with model year 2026;

b. Zero Emission Vehicle Program as described in Title 13 CCR is applicable starting with model year 2026; early compliance vehicle values as described in the Zero Emission Vehicle Program may be earned starting with model year 2024.

(e) All documentation referenced in the Titles 13 and 17 CCR sections listed in 310 CMR 7.40(1)(c): *Table 1* and *Table 2* including, but not limited to, California Test Procedures and 40 CFR Part 86, are hereby incorporated by reference.

(f) Pursuant to the requirements of 42 U.S.C. 7507, the Department shall apply technical guidance issued by the California ARB relative to the implementation of Titles 13 and 17 CCR including, but not limited to, Manufacturers Advisory Correspondences and Mailouts to all vehicles subject to 310 CMR 7.40.

(g) For purposes of applying the CCR sections and California Test Procedures incorporated by reference in 310 CMR 7.40, "California" shall mean "Massachusetts", unless the context clearly indicates otherwise. *For example,* "delivered for sale in California" and "placed in service in California" shall mean vehicles "delivered for sale in Massachusetts" or "placed in service in Massachusetts". Note that determinations of whether a manufacturer is a large, medium, small or independent low volume manufacturer are based on California sales.

(h) For purposes of applying the CCR sections and California Test Procedures incorporated by reference in 310 CMR 7.40, "Executive Officer" shall mean "Commissioner," unless the context clearly indicates otherwise.

(i) For purposes of enforcing the CCR sections and California Test Procedures incorporated by reference in 310 CMR 7.40, the Department shall conduct enforcement in accordance with 310 CMR 7.40(7).

(j) For purposes of implementing Title 13 CCR § 1962.4, the definitions of "Community-based Clean Mobility Program" and "Financial Assistance Program" in Title 13 CCR § 1962.4(1) are replaced with those in 310 CMR 7.40(1)(b).

(2) Emissions Requirements and Prohibitions.

(a) No person or other entity, including manufacturers, shall place in service, deliver for sale, sell, import, deliver, purchase, lease, rent, acquire, or receive a new vehicle subject to 310 CMR 7.40 in or into Massachusetts unless the vehicle has received a California ARB Executive Order for all applicable requirements of Titles 13 and 17 CCR and complies with the requirements in 310 CMR 7.40, except if the vehicle is sold directly from one dealer to another dealer, sold for the purpose of being wrecked or dismantled, sold exclusively for off-highway use, or sold for registration out of state, and except as provided in 310 CMR 7.40(2)(c).

(b) No motor vehicle dealer shall place in service, deliver for sale, sell, offer for sale or lease, or deliver in or into Massachusetts any new or used passenger car, light-duty truck, or medium-duty vehicle which is required to meet emission standards adopted pursuant to 310 CMR 7.40 unless said vehicle conforms to the standards below:

1. Ignition timing set to manufacturer's specifications with an allowable tolerance of $\pm 3^{\circ}$.

2. Idle speed is set to manufacturer's specifications with an allowable tolerance of ± 100 rpm;

3. All required exhaust and evaporative emission controls, including without limitation EGR valves, are operating properly;

4. All vacuum hoses and electrical wiring for emission controls are correctly routed; and

5. Idle mixture is set to manufacturer's specifications or according to manufacturer's recommended service procedure.

(c) <u>Exceptions</u>.

1. In addition to any exceptions or exemptions in Titles 13 and 17 CCR, motor vehicles held for daily lease or rental to the general public or engaged in interstate commerce which are registered and principally operated outside Massachusetts, shall not be subject to the requirements of 310 CMR 7.40(2)(a) and (b).

2. Passenger cars, light-duty trucks and medium-duty passenger vehicles defined as test vehicles, as emergency vehicles, or qualifying for exemption under Section 43656 of the California Health and Safety Code, incorporated herein by reference, shall not be subject to the requirements of 310 CMR 7.40(2)(a), (b), and (d).

(d) No person, or other entity shall place in service, deliver for sale, sell, lease, offer for sale or lease, import, deliver, purchase, rent, acquire or receive in or into Massachusetts any new passenger car, light-duty truck or medium-duty passenger vehicle subject to 310 CMR 7.40(2) unless said vehicle possesses one of the following:

1. A valid Emission Control Label pursuant to the requirements of Title 13 CCR § 1965; or

2. a Massachusetts Emission Control Waiver which may be granted by the Department in conjunction with the MassDOT Registry of Motor Vehicles Division prior to submitting a vehicle's registration application exempting the vehicle from the requirements of 310 CMR 7.40(2)(a), only in the following circumstances:

a. vehicle purchased by nonresident prior to establishing residency in Massachusetts; or

b. vehicle transfer by inheritance, or by decree of divorce, dissolution or legal separation entered by a court of competent jurisdiction; or

c. vehicle acquired by a resident of the Commonwealth for the purpose of replacing a vehicle registered to said resident which was damaged or inoperative, beyond reasonable repair, or was stolen while out of the Commonwealth; provided that such replacement vehicle is acquired out of the state at the time the previously registered vehicle became damaged or inoperative, beyond reasonable repair, or was stolen.

(e) Effective for model year 2021 and subsequent model years, no manufacturer shall deliver for sale to Massachusetts a new medium-duty vehicle that does not have an Environmental Performance Label securely affixed to a window of the vehicle in accordance with Title 13 CCR § 1965.

No motor vehicle dealer in Massachusetts shall remove or cause removal of an Environmental Performance Label affixed to any motor vehicle subject to 310 CMR 7.40(2)(e) prior to the sale or lease of the vehicle.

(f) Effective for model year 2009 and subsequent model years, no manufacturer shall deliver for sale to Massachusetts a new passenger car, light-duty truck, or medium-duty passenger vehicle subject to 310 CMR 7.40(2)(f) that does not have an Environmental Performance Label or a Federal Fuel Economy and Environment Label securely affixed to a window of the vehicle in accordance with Title 13 CCR § 1965. No motor vehicle dealer in Massachusetts shall remove or cause removal of an Environmental Performance Label or a Federal Fuel Economy and Environment Label affixed to any motor vehicle subject to 310 CMR 7.40(2)(f) prior to the sale or lease of the vehicle.

(g) For model year 2001 through 2009, Smog Index Labels for passenger cars and light-duty trucks shall conform to the "California Motor Vehicle Emission Control and Smog Index Label Specifications".

No motor vehicle dealer in Massachusetts shall remove or cause removal of a Smog Index Label affixed to any motor vehicle subject to 310 CMR 7.40(2)(g) prior to the sale or lease of the vehicle.

(h) <u>Anti-tampering Provisions</u>.

1. No person shall disconnect, modify, or alter any emissions-related part, except for purposes of repair or replacement.

2. No person shall operate or leave standing upon any highway any motor vehicle subject to 310 CMR 7.40 and required to be equipped with an emission control device meeting the standards of 310 CMR 7.40, or subject to the motor vehicle pollution control device requirements pursuant to the Clean Air Act, 42 U.S.C. 7401 *et seq.*, and the standards and requirements promulgated thereunder, unless the motor vehicle is equipped with the required motor vehicle pollution control device which is correctly installed and in operating condition.

- (3) <u>Vehicle Testing</u>.
 - (a) <u>New Vehicle Certification Testing</u>.

1. All new vehicle models subject to 310 CMR 7.40, sold or leased in Massachusetts, must be certified as meeting the motor vehicle emission requirements of Titles 13 and 17 CCR, as determined by testing conducted in accordance with the testing procedures incorporated in Titles 13 and 17 CCR.

2. For the purposes of compliance with 310 CMR 7.40(3)(a)1., New Vehicle Certification Testing determinations and findings made by the California ARB shall be applicable.

(b) Assembly Line Testing.

1. All manufacturers of new vehicles subject to 310 CMR 7.40, certified for sale in California and sold or leased in Massachusetts, shall conduct Quality Audit Testing in accordance with Title 13 CCR and in accordance with the testing procedures incorporated in Title 13 CCR.

2. All manufacturers of new vehicles subject to 310 CMR 7.40, certified for sale in California and sold or leased in Massachusetts, shall conduct Inspection Testing in accordance with Title 13 CCR and in accordance with the testing procedures incorporated in Title 13 CCR.

3. For the purposes of compliance with 310 CMR 7.40(3)(b)1. and 2., Inspection Testing and Quality Audit Testing determinations and findings made by the California ARB shall be applicable.

(c) <u>New Vehicle Compliance Testing</u>.

1. New vehicle models subject to 310 CMR 7.40, prior to their being offered for sale or lease in Massachusetts, shall meet the motor vehicle emission requirements of Titles 13 and 17 CCR, as determined by New Vehicle Compliance Testing, conducted in accordance with Titles 13 and 17 CCR and in accordance with the testing procedures incorporated in Titles 13 and 17 CCR.

2. For the purpose of compliance with 310 CMR 7.40(3)(c)1., New Vehicle Compliance Testing determinations and findings made by the California ARB shall be applicable.

(d) In-use Vehicle Enforcement Testing.

1. For the purposes of detection and repair of vehicles in Massachusetts failing to meet the applicable motor vehicle emission requirements of Titles 13 and 17 CCR, the Department may conduct, after consultation with the California ARB, In use Vehicle Enforcement Testing in accordance with the protocol and testing procedures in Titles 13 and 17 CCR and in accordance with the testing procedures incorporated in Titles 13 and 17 CCR.

2. For the purposes of compliance with 310 CMR 7.40(3)(d)1., In-use Vehicle Enforcement Testing determinations and findings made by the California ARB shall be applicable.

(e) <u>In-use Surveillance Testing</u>.

 For the purposes of testing and monitoring the overall effectiveness in Massachusetts of the program set forth in 310 CMR 7.40 in controlling emissions, the Department may conduct In-use Surveillance Testing after consultation with the California ARB.
 For the purposes of compliance with 310 CMR 7.40(3)(e)1., In-use Surveillance Testing determinations and findings made by the California ARB shall be applicable.

- (4) <u>Warranty</u>.
 - (a) Vehicle Manufacturer Obligations.

Each manufacturer of new vehicles subject to 310 CMR 7.40 which are sold, leased, or offered for sale or lease, in Massachusetts shall warrant that each such vehicle shall comply over its period of warranty coverage with all requirements of Title 13 CCR.
 For the purposes of mediation of unresolved emission warranty disputes in Massachusetts, "Executive Officer" in Title 13 CCR § 2041 shall mean "Commissioner" as defined at 310 CMR 7.00.

(b) Vehicle Owner Obligations.

1. The owner of any vehicle warranted pursuant to Title 13 CCR §§ 2035 through 2041 shall ensure all scheduled maintenance specified in the written instructions furnished to the owner is performed in a timely manner. Such maintenance may be performed by the owner, at a service establishment of the owner's choosing, or by a person or persons of the owner's choosing.

2. Except as specified in 310 CMR 7.40(4)(b)2.a. and b., failure of the vehicle or engine owner to ensure the performance of such scheduled maintenance or to keep maintenance records shall not, per se, be grounds for disallowing a warranty claim.

a. The repair or replacement of any "warranted part" otherwise eligible for warranty coverage under 310 CMR 7.40(4)(b)1. and 2., shall be excluded from such warranty coverage if the vehicle or engine manufacturer demonstrates that the vehicle or engine has been abused, neglected, or improperly maintained, and that such abuse, neglect, or improper maintenance was the direct cause of the need for the repair or replacement of the part; and

b. For 1979 through 1989 model year passenger cars, light duty trucks, and medium duty vehicles; 1979 and subsequent model year motorcycles and heavy duty vehicles; and motor vehicle engines used in such vehicles: the repair of a "warranted part" otherwise eligible for warranty coverage under 310 CMR 7.40(4)(b)1. and 2., shall be excluded from such warranty coverage if such repair consists solely of adjustments to the idle air/fuel mixture ratio (for 1979 model year passenger cars, and 1979 and 1980 model year light duty trucks and medium duty vehicles), curb or high idle speed, ignition timing, valve lash, injection timing for diesel powered vehicles, or any combination thereof.

(5) <u>Reporting Requirements</u>.

(a) <u>Warranty Reporting</u>. Each manufacturer shall submit to the Department Emission Warranty Information Reports, Field Information Reports and Emission Information Reports in accordance with Title 13 CCR §§ 2144 through 2146 for warranty claims in accordance with the methodology, timeline and format in Title 13 CCR §§ 2141 through 2149.

(b) <u>Recall Reporting</u>. Each manufacturer shall submit to the Department Recall Plans and Recall Campaign Progress Reports for in accordance with the methodology, timeline and format in Title 13 CCR §§ 2109 through 2148.

(c) All manufacturers offering vehicles for sale or lease in Massachusetts shall upon request, submit to the Department test results or reports obtained and prepared in compliance with 310 CMR 7.40(3) and in accordance with the reporting requirements incorporated in Titles 13 and 17 CCR.

(d) For the purposes of determining compliance with 310 CMR 7.40, the Department may require any motor vehicle manufacturer or dealer of vehicles subject to 310 CMR 7.40 to submit any documentation the Department deems necessary to the effective administration and enforcement of 310 CMR 7.40.

(e) For the purposes of determining compliance with the requirements of 310 CMR 7.40(1)(d), each manufacturer shall electronically submit to the Department reports using the same methodology, timeline and format used to report such information to California ARB.

(6) <u>Regional Document Repository</u>.

(a) For the purposes of emissions testing in compliance with 310 CMR 7.40(3)(c) through (e), and record keeping, Massachusetts may, in conjunction with at least three other Northeast states which have adopted and are implementing the California Low Emission Vehicle Program under the authority of 42 U.S.C § 7507, enter into an agreement to establish a regional document repository.

(b) At such time as Massachusetts enters into an agreement pursuant to 310 CMR 7.40(6)(a), for the purposes of compliance and enforcement in Massachusetts, determinations and findings of the California ARB pursuant to 310 CMR 7.40(3)(c) through (e) shall be applicable, in addition to the determinations and findings obtained through any agreement under 310 CMR 7.40(6)(a).

(c) Should the Department determine that such testing is necessary or desirable, the Department reserves the right to conduct, after consultation with the California ARB, vehicle testing pursuant to 310 CMR 7.40(3)(c) through (e).

(7) Enforcement.

(a) The Department may conduct inspection and surveillance of new and used motor vehicles for the purposes of compliance with the requirements set forth in 310 CMR 7.40.

1. Inspections by the Department or its agents, pursuant to 310 CMR 7.40(7)(a) may be conducted on any premises owned, operated, used, leased, or rented by any vehicle dealer. Said inspection may extend to all emissions-related parts and operation and may require the on premises operation and testing of an engine or vehicle, and inspection of any related records, including records of emissions-related part repair performed under warranty.

2. The Department or its agents may perform functional tests, steady-state tests, and other tests as reasonably necessary.

(b) Any order or enforcement action taken by the State of California to correct noncompliance with any section of Title 13 CCR §§ 2109 through 2149, shall be applicable to all said vehicles subject to 310 CMR 7.40, sold or leased, offered for sale or lease, or registered in Massachusetts.

(c) Any voluntary or influenced emission-related recall campaign initiated by any manufacturer pursuant to Title 13 CCR §§ 2109 through 2149 shall extend to all applicable vehicles subject to 310 CMR 7.40, sold or leased, offered for sale or lease, or registered in Massachusetts.

(d) Massachusetts Recall. (Reserved.)

(e) The Department shall enforce the requirements of 310 CMR 7.40 in accordance with Titles 13 and 17 CCR and applicable federal and Massachusetts law including, but not limited to, the issuance of administrative orders and civil administrative penalties pursuant to M.G.L. c. 21A, § 16, 310 CMR 5.00: *Administrative Penalty* and M.G.L. c. 111, §§ 2C and 142A through 142M.

(f) <u>Penalty for Failure to Meet ZEV Requirements in ACC I</u>. Any manufacturer that fails to produce and deliver for sale in Massachusetts the required number of ZEVs or submit an appropriate amount of grams/mile ZEV credits and does not make up ZEV deficits within the specified time period allowed by Title 13 CCR § 1962.2(g)(7) shall be subject to penalties under M.G.L. c. 111, § 142K applicable to a manufacturer that sells a new motor vehicle that does not meet the applicable emission standards adopted in 310 CMR 7.40. The cause of action shall be deemed to accrue when the ZEV deficits are not balanced by the end of the specified time period allowed by Title 13 CCR § 1962.2(g)(7). The number of vehicles not meeting the general percentage ZEV requirement shall be calculated according to 13 CCR 1962.2(g)(8).

(g) <u>Penalty for Failure to Meet ZEV Requirements in ACC II</u>. Any manufacturer that fails to make up a ZEV deficit within the specified time allowed by Title 13 CCR § 1962.4(h) shall be subject to enforcement under M.G.L. c. 111, § 142K and M.G.L. c. 21A, § 16. The cause of action shall be deemed to accrue when the deficit is not balanced by the end of the specified time allowed by Title 13 CCR § 1962.4(h).

(h) Penalty for Failure to Meet Advanced Clean Trucks Credit and Deficit Requirements. Any manufacturer that fails to retire an appropriate amount of ZEV or NZEV credits as specified in Title 13 CCR § 1963.3(c) and does not make up deficits within the specified time allowed by Title 13 CCR § 1963.3(b) shall be subject to enforcement under M.G.L. c. 111, § 142K and M.G.L. c. 21A, § 16. The cause of action shall be deemed to accrue when the deficit is not balanced by the end of the specified time allowed by Title 13 CCR § 1963.3(b). For the purposes of 310 CMR 7.40, the number of vehicles not meeting the standards or procedures of Title 13 CCR §§ 1963 through 1963.4 shall be equal to $\frac{1}{2}$ of the manufacturer's outstanding deficit.

(8) <u>Manufacturer Response to an Administrative Order</u>.

(a) Upon receipt of an Administrative Order issued by the Department pursuant to 310 CMR 7.40, the manufacturer may request an adjudicatory hearing within ten days pursuant to the procedures set forth in 310 CMR 1.00: *Adjudicatory Proceedings*, to contest the determination of necessity for the ordered corrective action.

(b) If a manufacturer requests an adjudicatory hearing pursuant to 310 CMR 7.40(8), and if the determination of necessity is confirmed at the hearing, the manufacturer shall initiate the corrective action which has been approved by the California ARB pursuant to the requirements of Titles 13 and 17 for vehicles subject to 310 CMR 7.40, within 30 days of receipt of the decision resulting from the hearing.

(c) Failure by a manufacturer to comply with an enforcement action ordered by the Department pursuant to 310 CMR 7.40 shall constitute violation of an order issued under the authority of M.G.L. c. 111, § 142B.

(9) <u>Emission Control System "Aftermarket" Parts.</u>

(a) <u>Applicability</u>. 310 CMR 7.40(9) shall apply to all aftermarket parts which are sold, offered for sale, or advertised for sale or use on motor vehicles which are subject to Massachusetts or federal emissions standards.

(b) Prohibition.

1. No person engaged in a business which involves the selling of motor vehicle pollution control systems, or parts thereof, shall offer for sale, sell, or install, an air contaminant emission control system, or part thereof, unless it meets the regulations and standards set forth in 310 CMR 7.40(9).

2. No person shall install, sell, offer for sale, or advertise any device, apparatus, or mechanism intended for use with, or as a part of, any required motor vehicle pollution control system or device which alters or modifies the original design or performance of any such motor vehicle pollution control system or device. 310 CMR 7.40 shall not apply to an alteration, modification, or modifying device, apparatus or mechanism found by the Department to either:

a. Not reduce the effectiveness of any motor vehicle pollution control system or device; or

b. Result in emissions from any such modified or altered vehicle which are at levels which comply with existing state or federal standards for that model year of vehicle being modified or converted.

- (c) <u>Replacement Parts</u>.
 - 1. a. Any replacement part, including consolidated parts, offered for sale or sold in California and subject to Title 13 CCR §§ 2221, 2222 or 2224, shall be presumed to be in compliance with 310 CMR 7.40(9), unless California makes a finding to the contrary pursuant to Title 13 CCR § 2224(a).

b. Any replacement part, including consolidated parts, not offered for sale or sold in California, shall be presumed to be in compliance with 310 CMR 7.40(9)(c), unless the Commissioner makes a finding to the contrary in accordance with Title 13 CCR § 2224(a).

2. The manufacturer of any replacement part subject to the provisions of 310 CMR 7.40(9) shall maintain sufficient records, such as performance specifications, test data, or other information, to substantiate that such a replacement part is in compliance with 310 CMR 7.40(9). Such records shall be open for reasonable inspection by the Commissioner or his or her representative. All such records shall be maintained for four years from the year of manufacture of the replacement part.

(d) Add-on and Modified Parts.

1. As used in 310 CMR 7.40, the terms "advertise" and "advertisement" include, but are not limited to, any notice, announcement, information, publication, catalog, listing for sale, or other statement concerning a product or service communicated to the public for the purpose of furthering the sale of the product or service.

2. a. No person or company doing business solely in Massachusetts or advertising only in Massachusetts shall advertise any device, apparatus, or mechanism which alters or modifies the original design or performance of any required motor vehicle pollution control device or system unless such part, apparatus, or mechanism has been exempted from the provisions of 310 CMR 7.40(9), and the limitations of the exemption, if any, are contained within the advertisement in type size to give reasonable notice of such limitations.

b. (i) No person shall advertise, offer for sale, or install a part as a motor vehicle pollution control system or device as an approved or certified device, when in fact such part is not a motor vehicle pollution control system or device or is not approved or certified by the Department or by California.

(ii) No person shall advertise, offer for sale, sell or install an add-on or modified part as a replacement part.

 c. (i) Add-on and modified parts exempted in accordance with Title 13 CCR § 2222 are deemed exempt for purposes of 310 CMR 7.40(9)(d).

(ii) The Commissioner may exempt add-on and modified parts, including consolidated parts, that are not subject to Title 13 CCR § 2222. The Commissioner shall make this determination in accordance with Title 13 CCR § 2222.

(iii) Each person engaged in the business of retail sale or installation of an add-on or modified part which has not been exempted from 310 CMR 7.40(9)(d) shall maintain records of such activity which indicate date of sale, purchaser name and address, vehicle model and work performed if applicable. Such records shall be open for inspection by the Commissioner or his or her representative. All such records shall be maintained for four years from the date of sale or installation.

(e) <u>Surveillance</u>.

1. <u>Replacement Parts</u>. The Commissioner may require the manufacturer of any replacement part subject to the provisions of 310 CMR 7.40(9)(c) to submit any records relating to such part which are maintained pursuant to 310 CMR 7.40(9)(c)2. The Commissioner may require the manufacturer of any replacement part subject to the provisions of 310 CMR 7.40(9)(c) to submit a reasonable number of parts typical of the manufacturer's production for testing and evaluation. If, after a review of all records submitted by the manufacturer and of the results of any tests conducted by the Department staff, the Commissioner finds that such part is not in fact a replacement part, the Commissioner may invoke 310 CMR 7.40(9)(f). Replacement parts evaluated pursuant to 310 CMR 7.40 shall be compared with the specifications contained in the applicable vehicle manufacturer's application for certification.

2. <u>Add-on Parts and Modified Parts</u>. The Commissioner may require the manufacturer of any add-on or modified part subject to the provisions of 310 CMR 7.40(9)(d) to submit a reasonable number of parts typical of the manufacturer's production for testing and evaluation. If, after review of the results of any tests or evaluations conducted by the Department's staff and of any information submitted by the manufacturer, the Commissioner finds that an add-on part or a modified part does not conform to Title 13 CCR § 2222, the Commissioner may invoke 310 CMR 7.40(9)(f).

(f) <u>Corrective Action</u>.

1. When 310 CMR 7.40(9)(f) is invoked pursuant to 310 CMR 7.40(9)(e) or other subsections of 310 CMR 7.40(9), the Commissioner may require the manufacturer to submit a plan for correcting any deficiencies found by the Department. The manufacturer shall submit the plan within 30 calendar days after notification. The Commissioner may require any of the actions contained in the plan, and/or may declare a part to be not in compliance with 310 CMR 7.40(9)(b)2., unless he or she finds the plan adequate to correct the deficiencies found by the Department. The manufacturer may be required to include in the plan such corrective actions as the cessation of sale of non-complying parts and corrective advertising to correct misleading information regarding the emission control capabilities of the device and to ensure compliance with Massachusetts laws. Nothing in 310 CMR 7.40 (9).

2. The manufacturer, within ten calendar days of its receipt of the Commissioner's demand for corrective action, may request an adjudicatory hearing, pursuant to M.G.L. c. 30A, on the necessity for and scope of any corrective action required by the Commissioner.

(g) <u>Repair Station</u>. Any person holding a vendor's certificate of authority who sells or installs a motor vehicle pollution control system, or part thereof, in violation of 310 CMR 7.40(9)(b)2. shall thereafter be required to install a motor vehicle pollution control system, or part thereof, which is in compliance with the provisions of 310 CMR 7.40(9), upon demand of the purchaser or registered owner of the vehicle concerned, or at the election of the purchaser or registered owner to reimburse the purchaser or registered owner for the expense of replacement and installation of a motor vehicle pollution control system, or part thereof, which is in compliance.

(10) <u>Severability</u>. Each subsection of 310 CMR 7.40 shall be deemed severable, and in the event that any subsection of 310 CMR 7.40 is held invalid, the remainder shall continue in full force and effect.

7.41: Large Entity Reporting Requirement

(1) <u>Purpose</u>. The purpose of 310 CMR 7.41 is to collect information to assess suitability of zero-emission vehicles in multiple use cases and to inform future strategies on how to accelerate the zero-emission vehicle market in Massachusetts. 310 CMR 7.41 supports future measures to reduce emissions of oxides of nitrogen (NOx), fine particulate matter (PM), other criteria pollutants, toxic air contaminants, and greenhouse gases (GHG) from vehicles. The Regulatory Authority for 310 CMR 7.41 is 310 CMR 7.41: M.G.L. c. 21N and c. 111 §§ 142A through 142E and 142K.

(2) <u>Scope and Applicability</u>. Except as provided in 310 CMR 7.41(3), 310 CMR 7.41 applies to each of the following entities:

(a) Any entity with gross annual revenues greater than \$50 million in the United States for the 2022 tax year, including revenues from all subsidiaries, subdivisions, or branches, that operated a facility in Massachusetts in the 2022 calendar year and had one or more vehicles over 8,500 lbs. GVWR under common ownership or control that were operated in Massachusetts in the 2022 calendar year;

(b) Any fleet owner in the 2022 calendar year that had 40 or more vehicles with a GVWR greater than 8,500 lbs. under common ownership or control and operated a facility in Massachusetts;

(c) Any broker or entity that dispatched 40 or more vehicles with a GVWR greater than 8,500 lbs. into or throughout Massachusetts, and operated a facility in Massachusetts, in the 2022 calendar year;

(d) Any Massachusetts government agency including all state and local municipalities and public schools that had one or more vehicles over 8,500 lbs. GVWR that were operated in Massachusetts in the 2022 calendar year and all non-public schools that operated one or more school buses over 8,500 lbs. GVWR in the 2022 calendar year; and

(e) Any federal government agency that had one or more vehicles over 8,500 lbs. GVWR that were operated in Massachusetts in the 2022 calendar year.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

7.41: continued

(3) <u>Exemptions</u>. The following entities, facilities, or vehicles are exempt from the requirements of 310 CMR 7.41:

(a) Military tactical vehicles and military tactical facilities owned or operated by the United States Department of Defense and/or the United States military services;

- (b) Vehicles awaiting sale; or
- (c) Emergency vehicles.

(4) <u>Definitions</u>. The definitions in 310 CMR 7.00 apply to 310 CMR 7.41 unless otherwise defined in 310 CMR 7.41(4). Where a term defined in 310 CMR 7.00 also appears in 310 CMR 7.41, the definition in 310 CMR 7.41 is applicable for the purpose of 310 CMR 7.41.

<u>Backup Vehicle</u>. A self-propelled motor vehicle designed for on-highway use that is used intermittently to maintain service during periods of routine or unplanned maintenance, unexpected vehicle breakdowns, or accidents but is not used in everyday or seasonal operations.

<u>Broker</u>. A person who has broker authority from the Federal Motor Carrier Safety Administration and, for compensation, arranges or offers to arrange the transportation of property by an authorized motor carrier. A motor carrier, or an employee or bona fide agent of a carrier, is not a broker when it arranges or offers to arrange the transportation of shipments which it is authorized to transport and which it has accepted and legally bound itself to transport.

<u>Common Ownership or Control</u>. Being owned or managed day to day by the same person. Vehicles managed by the same directors, officers, or managers, or by corporations controlled by the same majority stockholders are considered to be under common ownership or control even if their title is held by different business entities. Common ownership or control of a federal government vehicle shall be the primary responsibility of the federal government unit that is directly responsible for its day to day operational control.

<u>Corporate Parent</u>. A business that possesses the majority of shares in another business, which gives them control of the other business' operational procedures.

<u>Dispatched</u>. Provided direction or instruction for routing a vehicle(s), whether owned or under contract, to specified destinations for specific purposes including, but not limited to, delivering cargo, passengers, property or goods, providing a service, or assisting in an emergency.

<u>Emergency Vehicle</u>. Any publicly owned vehicle operated by a peace officer in performance of their duties, any authorized emergency vehicle used for fighting fires or responding to emergency fire calls, any publicly owned authorized emergency vehicle used by an emergency medical technician or paramedic, or used for towing or servicing other vehicles, or repairing damaged lighting or electrical equipment, any motor vehicle of mosquito abatement, vector control, or pest abatement agencies and used for those purposes, or any ambulance used by a private entity under contract with a public agency.

Facility. Any property with one or more unique physical addresses.

<u>Facility Category</u>. A classification of different facility types based on a facility's primary purpose. Facility categories are defined as the following:

(a) <u>Administrative/Office Building</u>. A building or structure used primarily for day-to-day activities that are related to administrative tasks such as financial planning, recordkeeping and billing, personnel, physical distribution and logistics, within a business.

(b) <u>Distribution Center/Warehouse</u>. A location used primarily for the storage of goods, which are intended for subsequent shipment.

(c) <u>Hotel/Motel/Resort</u>. A commercial establishment offering lodging to travelers and sometimes to permanent residents.

(d) <u>Manufacturer/Factory/Plant</u>. A location with equipment for assembling parts, producing finished products, intermediate parts, or energy products.

(e) <u>Medical/Hospital/Care</u>. An institution engaged in providing inpatient diagnostic and therapeutic services or rehabilitation services by or under the supervision of physicians.

(f) <u>Multi-building Campus/Base</u>. A property typically operated by a single entity with several buildings, often serving multiple purposes.

(g) <u>Restaurant</u>. A business establishment where the primary purpose is serving meals or refreshments.

(h) <u>Service Center</u>. A facility that supports a business operation that generates revenue by providing a specific service or product, or a group of services or products to a customer.

(i) <u>Store</u>. An establishment that sells goods or a variety of goods and services to the general public.

(j) <u>Truck/Equipment Yard</u>. An establishment that primarily stores or dispatches trucks and equipment such as a garage or parking lot.

(k) <u>Any Other Facility Type</u>. Any facility that is not included in Facility Category (a) through (j).

<u>Fleet</u>. One or more self-propelled vehicles under common ownership or control of a person. This includes vehicles that are rented or leased from a business that regularly engages in the trade or business of leasing or renting motor vehicles without drivers where the vehicle rental or leasing agreement for the use of a vehicle is for a period of one or more years.

<u>Fleet Owner</u>. Except as modified in (a) and (b), either the person registered as the owner or lessee of a vehicle by the Massachusetts Registry of Motor Vehicles (RMV), or its equivalent in another state, province, or country; as evidenced on the vehicle registration document carried in the vehicle.

(a) For vehicles that are owned by the federal government and not registered in any state or local jurisdiction, the owner shall be the department, agency, branch, or other entity of the United States, including the United States Postal Service, to which the vehicles in the fleet are assigned or which have responsibility for maintenance of the vehicles.

(b) For a vehicle that is rented or leased from a business that is regularly engaged in the trade or business of leasing or renting motor vehicles without drivers, the owner shall be the rental or leasing entity if the rental or lease agreement for the use of a vehicle is for a period of less than one year, otherwise the owner shall be the renter or lessee.

<u>Government Agency</u>. Any federal, state, or local governmental agency or quasi-governmental agency including, but not limited to, authorities boards, bureaus, commissions, committees, councils, departments, divisions, groups, guards, homes, laboratories, libraries, offices, police, programs, systems, trusts, universities and other entities, water districts, or any other public entity.

<u>Gross Annual Revenue</u>. The total revenue, receipts, and sales reported to the Internal Revenue Service for a consecutive 12-month period.

<u>Gross Vehicle Weight Rating or GVWR</u>. The weight specified by the manufacturer as the loaded weight of a single vehicle.

<u>Military Tactical Vehicle</u>. A motor vehicle owned by the U.S. Department of Defense and/or the U.S. military services and used in combat, combat support, combat service support, tactical or relief operations, or training for such operations.

<u>Motor Carrier</u>. A person that transports passengers or property for compensation. A motor carrier, or person who is an employee or bona fide agent of a carrier, is not a broker when it arranges or offers to arrange the transportation of shipments that it is authorized to transport and that it has accepted and legally bound itself to transport.

<u>Municipality</u>. A city, county, city and county, special district, or a public agency of the Commonwealth of Massachusetts, and any department, division, public corporation, or public agency of Massachusetts.

Responsible Official.

(a) For a corporation: A president, secretary, treasurer, or vice president of the corporation in charge of a principal business function who has been duly authorized to bind the corporation pursuant to a corporate vote, or a representative of the corporation who has been duly authorized to bind the corporation pursuant to a corporate vote provided the representative is responsible for the overall operation of the facility;

(b) For a limited liability company, person authorized pursuant to M.G.L. c. 156C, \S 24 and the limited liability company's operating agreement to bind the company and all the members;

(c) For a trust: a trustee or any other natural person authorized:

1. to enter into contracts regarding the trust property;

2. to bind the trust; or

3. to encumber or dispose of the trust property.

(d) For a partnership: A general partner who has been duly authorized to bind the partnership;

(e) for a sole proprietorship; the sole proprietor; or

(f) For a municipality, state, federal, or other public or quasi-public entity including any legislatively created authority, board, commission, district, etc.: a principal executive officer or ranking elected official who is empowered to enter into contracts on behalf of the municipality or public or quasi-public entity.

<u>Subhauler</u>. A for-hire motor carrier who enters into an agreement to provide transportation services on the behalf of another motor carrier or broker.

Subsidiary. A company controlled by another company.

<u>Vehicle</u>. Self-propelled equipment intended for use on highways and off-road yard tractors, and does not include motorcycles.

<u>Vehicle Body Type</u>. Commonly used vehicle body descriptions to be used in responding to questions about the fleet of vehicles including the following: beverage truck, boom/bucket, box reefer, box dry van, bus shuttle, bus-other, car/SUV, car carrier, concrete mixer, concrete pump, crane, drill rig, dump, flatbed or stake bed, garbage front loader, garbage side loader, garbage packer, garbage roll-off, other, pickup bed, service body, sweeper, tank, tractor day cab, tractor sleeper cab, tow, vacuum, water, van-cargo, van-step, van-passenger, on-road or off-road yard tractor.

<u>Vehicle Home Base</u>. The location where a vehicle is domiciled meaning a business location where a vehicle is typically kept when not in use. Vehicles that are kept at a personal residence or kept at a location that is not operated by the entity shall use the location where the vehicle is dispatched from or where the vehicle is repaired or maintained.

<u>Vehicles Awaiting Sale</u>. Vehicles in the possession of dealers, financing companies, or other entities that do not intend to operate the vehicle in Massachusetts or offer the vehicle for hire for operation in Massachusetts, and that are operated only to demonstrate functionality to potential buyers or to move short distances while awaiting sale for purposes such as maintenance or storage.

<u>Weight Class Bin</u>. A list of vehicles categorized by GVWR. The weight class bins are one of the following:

(a) <u>Light-duty</u>. A self-propelled motor vehicle designed for on-highway use with a GVWR of 8,500 lbs. or less. Also referred to as Class 1-2a. This includes passenger cars, sport utility vehicles, minivans, and light pickup trucks.

(b) <u>Class 2b-3</u>. A self-propelled motor vehicle designed for on-highway use with a GVWR from 8,501 lb. to 14,000 lb. The types of vehicle in this category generally includes full-size pickup trucks, smaller utility trucks, cargo vans, and passenger vans.

(c) <u>Class 4-6</u>. A self-propelled motor vehicle designed for on-highway use with a GVWR from 14,001 lb. to 26,000 lb.

(d) <u>Class 7-8</u>. A self-propelled motor vehicle designed for on-highway use with a GVWR greater than 26,000 lbs.

(5) <u>General Requirements</u>.

(a) <u>Reporting</u>. All regulated entities shall submit information specified in 310 CMR 7.41(6) and (7) to the Department. Subsidiaries, parent companies, or joint ventures may independently report, or the corporate parent or joint venture business may report on their behalf, as long as all information for subsidiaries, corporate parents, and joint ventures with

vehicles over 8,500 lbs. are reported. Entities with brokerage or motor carrier authority shall report even if no vehicles are owned by that subsidiary, corporate parents, or joint venture. Vehicles that are under common ownership or control may be submitted separately by each fleet owner. Complete information shall be reported by March 1, 2024. Vehicle data shall be reported as the fleet was comprised on a date of the fleet owner's choosing any time after January 1, 2022. To the extent reports submitted contain confidential data, entities may request that information be kept confidential pursuant to 310 CMR 3.00: *Access to and Confidentiality of Department Records and Files*.

(b) <u>Report Signature and Certification</u>. The report shall be signed by a responsible official and include the following statement: "I certify that I have personally examined the report for this entity and am familiar with the information contained in that report and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment."

(c) <u>Method of Reporting</u>. Reports submitted to comply with 310 CMR 7.41 shall be submitted in a format specified by the Department.

(d) <u>Record Retention</u>. The responsible official shall maintain the records of their information required by 310 CMR 7.41 until December 31, 2025, for the overall fleet. In addition, the fleet owner or responsible person shall maintain all fleet, vehicle, contract, and facility records used to compile responses to 310 CMR 7.41(6) and the data and analysis period used for 310 CMR 7.41(7). Records shall include the following:

1. For owned vehicles, mileage records and dates from records such as maintenance logs, vehicle logs, odometer readings, or other records with the information that the reporting entity used to determine their responses;

2. For vehicles not owned but dispatched by the entity, dispatch records and dates, contracts, or other records with the information that the reporting entity used to determine their responses;

- 3. Vehicle registration for each owned vehicle in the Massachusetts fleet; and
- 4. Contracts with entities, or contracts with subhaulers, or other records with the information that an entity used to determine their responses.

(e) <u>Request to Clarify Reported Data</u>. The responsible official shall respond to requests for clarification of reported information within 14 days of receiving the request from the Department.

(6) <u>General Entity Information Reporting</u>. All entities subject to 310 CMR 7.41 shall report the following general information about their entity and business practices and such other similar information as the Department may require:

- (a) Entity name;
- (b) Mailing address including street name or P.O. box, city, state, and ZIP code;
- (c) Designated contact name;
- (d) Designated contact's email address;
- (e) Designated contact's phone number;
- (f) Corporate parent name or governing body (if applicable);

(g) Federal Taxpayer Identification Number of Corporate Parent or other entities with which your entity has vehicles under common ownership or control (if applicable);

(h) For government entities, identify the jurisdiction (federal, state, or local);

(i) Federal Taxpayer Identification Number (if applicable);

(j) Primary six digit North American Industry Classification System (NAICS) code (if applicable);

(k) For non-governmental entities, identify the total annual revenue for the entity in the United States for 2022. Respond by using the following bins in millions of dollars (<\$10, \$10-\$49, \$50-\$99, \$100-\$499, \$500-\$999, >\$1,000);

(1) Identify if your entity has broker authority under the Federal Motor Carrier Safety Administration;

(m) The following operating authority numbers, if applicable: Motor carrier identification number, United States Department of Transportation number, International Registration Plan number;

(n) Identify the number of entities with whom the entity has a contract to deliver items or to perform work in Massachusetts using vehicles over 8,500 lbs. GVWR in 2022 or 2023 to serve your customers while representing your entity's brand. Respond using the following bins (0, 1-10, 11-20, 21-50, or more than 50);

(o) If the entity has motor carrier or broker authority and contracts with subhaulers to serve its customers, identify the following for the year 2022 or 2023; if the entity does not have motor carrier or broker authority, mark "Does not apply":

1. The number of subhaulers the entity contracted with in Massachusetts to transport goods or other property. Respond using the following bins (Does not apply, 0, 1-10, 11-20, 21-50, or more than 50);

2. Estimated number of vehicles operated by subhaulers on the entity's behalf in Massachusetts. Respond using the following bins (Does not apply, 0, 1-10, 11-20, 21-99, 100-500, >500); and

3. Estimated number of vehicles operated by subhaulers that operated under the entity's motor carrier authority in Massachusetts. Respond using the following bins (Does not apply, 0, 1-10, 11-20, 21-99, 100-500, >500).

(p) Identify whether the entity has a written sustainability plan to reduce your carbon footprint. Respond with (Yes, No, Does not apply);

(q) Identify whether the entity's written sustainability plan includes transportation emissions reduction goals. Respond with (Yes, No, Does not apply);

(r) Identify the number of vehicles with a GVWR over 8,500 lb. the entity owned and operated in Massachusetts in either 2022 or 2023 that do not have a vehicle home base in Massachusetts.

(s) Identify whether the data used to respond to the questions in 310 CMR 7.41(6) were from 2022, 2023, 2024, or a combination thereof.

(7) Vehicle Usage by Facility Reporting. Entities that own or operate any vehicles under common ownership or control, or that broker to use vehicles with a GVWR greater than 8,500 lbs. shall report general information about the vehicle home base where all vehicles are domiciled or assigned as specified in 310 CMR 7.41(7)(a), information about vehicle operating characteristics for vehicles domiciled or assigned to each vehicle home base in Massachusetts as specified in 310 CMR 7.41(7)(b) and such other similar information as the Department may require. Vehicles that accrue a majority of their annual miles in Massachusetts, but are not assigned to a particular location in Massachusetts, shall be reported as part of the headquarters or another location where the vehicles' operation is managed.

(a) All entities shall report the following information for each vehicle home base:

- 1. Facility address including street name, city, state, and ZIP code;
- 2. Facility category;
- 3. Contact name;
- 4. Contact email address:
- 5. Identify whether the facility is owned or leased by the entity;
- 6. Identify what type of fueling infrastructure is installed at the facility, by selecting all
- of the fuel types dispensed at the facility as listed in 310 CMR 7.41(7)(a)6.a. to g.:
 - a. Diesel;
 - b. Gasoline;
 - c. Natural gas;
 - d. Electricity for vehicle charging (Level 2 or higher power);
 - e. Hydrogen;
 - f. Other fuel; or
 - g. Not applicable.

7. Identify what fueling infrastructure was initially installed on or after January 1, 2010 for the fueling options listed in 310 CMR 7.41(7)(a)6.a. through g.;

8. Identify what types of trailers are pulled if tractors are assigned or domiciled at this facility:

- a. Van-dry;
- b. Van-reefer;
- c. Tanker;d. Flatbed;
- e. Shipping container;
- f. Low bed;

- g. Curtain side; or
- h. Other.

(b) For each vehicle home base with a vehicle above 8,500 lbs. GVWR, report information specified in 310 CMR 7.41(7)(b)1. through 6. for all vehicles above 8,500 lb. GVWR including off-road yard tractors. Responses shall be grouped by the combination of vehicle body type, weight class bin, and fuel type listed in 310 CMR 7.41(7)(a)6.a. through g. (vehicle group). Alternatively, responses may be completed for each individual vehicle and include the vehicle's body type, weight class bin, and fuel type. Separately report vehicles dispatched under brokerage authority, if applicable. Each vehicle shall only be counted once for each response. Additional information for analysis periods used to respond to questions in 310 CMR 7.41(7) is located in 310 CMR 7.41(7)(b)7. Additional information on reusing vehicle operational information between similar locations is located in 310 CMR 7.41(7)(b)8. Vehicles dispatched under brokerage authority but not owned by the entity are not subject to reporting information from 310 CMR 7.41(7)(b)2.a. through e. and additional information for brokers is located in 310 CMR 7.41(7)(b)9.

1. How many vehicles in each vehicle group;

2. The percent of the vehicles in each vehicle group that have the operations listed in 310 CMR 7.41(7)(b)2.a. through q., except 310 CMR 7.41(7)(b)2.j., represented by 90% of a vehicle's operating days for the analysis period selected per 310 CMR 7.41(7)(b)7. Respond by estimating the percent of the total vehicles that apply to the category and rounding to the nearest 10%. For off-road yard tractors, 310 CMR 7.41(7)(b)2.a. through e. and k. are optional. Do not include backup or non-operational vehicles in calculating vehicle group mileage averages.

- a. Operate up to 100 average miles per day;
- b. Operate up to 150 average miles per day;
- c. Operate up to 200 average miles per day;
- d. Operate up to 300 average miles per day;
- e. Operate more than 300 average miles per day;

f. Has a predictable usage pattern. For example, refuse trucks or package delivery trucks typically have predictable usage patterns because they tend to serve the same neighborhoods each week;

g. Fuels on-site as the primary means of fueling;

h. Typically returns to this vehicle home base daily. For example, if a vehicle returns to a personal residence nearly all days of the year and does not return to the vehicle home base often, the vehicle would not be counted; however, a vehicle that returns to the vehicle home base nightly for nine out of ten workdays, or always stays at home base, would be counted;

i. Has onboard GPS or mileage tracking;

j. Whether most of the vehicles in the vehicle group stay within approximately 50 miles of this facility on a typical day (indicate either Yes or No);

- k. Tows a trailer more than 100 miles a day;
- 1. Commonly operates at its weight limit;

m. Is not registered in Massachusetts;

n. Is regularly parked at the facility more than eight hours each day;

o. The highest approximate percent of the vehicle group that was dispatched at the same time over the last three years on the behalf of a local, state or federal government to support an emergency operation such as repairing or preventing damage to roads, buildings, terrain, and infrastructure as a result of an earthquake, flood, storm, fire, terrorism, or other infrequent acts of nature;

p. Is equipped with all-wheel drive; and

q. Are not being operated or are used as backup vehicles.

3. The average annual mileage for a typical vehicle in this vehicle group. Respond by using one of the following that is closest to the average miles (5,000 or less, 10,000, 20,000, 30,000, 40,000, 50,000, 60,000, 70,000, 80,000, 90,000, 100,000, or more than 100,000).

4. For vehicle types represented in this vehicle group, identify how long you typically keep vehicles after acquisition. Respond in number of years by using one of the following bins: (Less than 4, 5-10, 11-15, 16-20, or more than 20).

5. Identify whether the entity is the fleet owner for this vehicle group, or if they are dispatched under your brokerage authority.

6. Identify the start and end date of the analysis period selected per 310 CMR 7.41(7)(b)7.

7. Entities shall either use annual or quarterly data averaged for workdays during the period selected to determine responses or alternatively may select a different time period. A shorter analysis period may be used if it is more representative of periods of high vehicle utilization when answering questions about typical daily operation. For example, if an entity selects annual data to determine vehicle daily mileage, average the annual mileage accrued by the number of workdays that year. Otherwise, if an entity with seasonal workload fluctuations determines that a week or month during the busy season is representative, average the data records for that week or month when determining a response. If an alternative analysis period is used, the entity shall describe its reasoning at the request of the Department per 310 CMR 7.41(5)(d).

8. Responses for items in 310 CMR 7.71(7)(b)1. through 5. for a vehicle group at one location may be repeated for the same vehicle group at another vehicle home base if the operation at that location is substantially similar to another location.

9. A broker is only expected to provide information about vehicle usage that is dispatched under contract with a fleet owner. For example, if a broker hires a truck to move a load, only the miles driven under that contract shall be included in the responses and the broker is not expected to have information about the miles driven outside the contract, but may voluntarily report the information if known.

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7.51: U Hearings Relative to Orders and Approvals

(1) <u>Rules to Request an Adjudicatory Hearing</u>.

(a) <u>Definitions</u>. Unless otherwise indicated, the definitions in 310 CMR 7.00 apply to 310 CMR 7.51(1) and (3). Where a term is defined in 310 CMR 7.00 and 7.51(1), the definition in 310 CMR 7.51(1) controls for purposes of 310 CMR 7.51(1) and (3).

<u>Adjudicatory Hearing or Hearing</u> means a hearing under M.G.L. c. 30A, where parties may present evidence on issues of fact and argument on issues of law, and which is concluded by the Commissioner's issuance of a final decision pursuant to 310 CMR 1.01(14): *Decisions*.

<u>Aggrieved Person</u> means any person who, because of an act or failure to act by the Department, may suffer an injury in fact that is different either in kind or magnitude from that suffered by the general public, and that is within the scope of the interests protected by 310 CMR 7.00.

<u>Applicant</u> means the person named in the application as the owner or operator of the proposed facility or emission unit.

<u>Application</u> means any request by a person for a permit, a plan approval, an emission control plan, a restricted emission status, an operating permit, an emission reduction credit or other approval issued by the Department pursuant to 310 CMR 7.00.

<u>Approve or Approval</u> means the approval or approval with conditions of an application for a permit, a plan approval, an emission control plan, a restricted emissions status, an operating permit, an emission reduction credit or other type of approval issued by the Department pursuant to 310 CMR 7.00.

<u>Disapprove or Disapproval</u> means the disapproval or denial by the Department of an application for a permit, a plan approval, an emission control plan, a restricted emissions status, an operating permit, an emission reduction credit or other type of application made to the Department pursuant to 310 CMR 7.00.

<u>Decision</u> means the Department's action to approve or disapprove of an application pursuant to 310 CMR 7.00.

Date of Issuance means the date the Department sends the decision to an applicant.

<u>Person</u> means any individual, partnership, association, firm, syndicate, company, trust, corporation, department, authority, bureau, agency, political subdivision of the Commonwealth, law enforcement agency, fire fighting agency, or any other entity recognized by law as the subject of rights and duties.

<u>Request for Adjudicatory Hearing means the notice of claim for an adjudicatory hearing that</u> is filed with the Office of Administrative Dispute Resolution in accordance with the requirements in 310 CMR 1.01: *Adjudicatory Proceedings*.

(b) <u>Applicability</u>. The provisions of 310 CMR 7.51(1) apply to any person(s) who submitted an application to the Department after March 9, 2018, and who is seeking to request an adjudicatory hearing to review any Department decision on an application submitted pursuant to 310 CMR 7.00, except as exempted in 310 CMR 7.51(1)(c).

(c) <u>Exemptions</u>. No person or ten persons group may file a request for an adjudicatory hearing pursuant to the requirements in 310 CMR 7.51(1) for the following actions:

1. Administrative orders issued by the Department for violations of any provision of 310 CMR 7.00 that shall be appealed within ten days of issuance pursuant to the procedures and requirements of 310 CMR 7.51(3).

2. Administrative penalty assessments issued pursuant to M.G.L. c. 21A, § 16 and 310 CMR 5.00: *Administrative Penalty* for violations of any provisions of 310 CMR 7.00 shall be appealed in accordance with the provisions of 310 CMR 1.01:

Adjudicatory Proceeding Rules for the Department of Environmental Protection and 310 CMR 5.00.

3. Tunnel Ventilation Certifications issued by the Department pursuant to 310 CMR 7.38 that require appeals to Superior Court.

4. Approvals or disapprovals or portions of approvals or disapprovals, issued by the Department pursuant to 40 CFR 52.21 (PSD).

5. Notifications, certifications and other submittals to the Department on which the Department does not issue decisions including, but not limited to, the certification required pursuant to 310 CMR 7.02(7)(c), Facility Emission Cap Notifications pursuant to 310 CMR 7.02(11), notifications regarding demolition/renovation operations pursuant to 310 CMR 7.09, notifications regarding asbestos abatement activities pursuant to 310 CMR 7.15, notifications and certifications pursuant to 310 CMR 7.24, and/or certifications pursuant to 310 CMR 7.26.

6. Department requests for and approval of monitoring, modeling and compliance protocols, actions, and results pursuant to 310 CMR 7.00 including, but not limited to, stack testing pursuant to 310 CMR 7.13, and emissions monitoring pursuant to 310 CMR 7.14.

7. Department approvals or denials of waivers or variances under 310 CMR 7.00 including, but not limited to, notification waivers and nontraditional work practice approvals issued pursuant to 310 CMR 7.15.

8. Approvals of administrative amendments to plan approvals issued by the Department pursuant to 310 CMR 7.02(13) and minor modifications to Operating Permits issued by the Department pursuant to 310 CMR 7.00: *Appendix C*(8).

(d) <u>Comments on Proposed Decisions</u>. If the Department provides a public comment period on the proposed decision, then any person or ten persons group may file written comments on the proposed decision during the public comment period provided by 310 CMR 7.00. Failure by an aggrieved person or ten persons group to submit written comments as provided herein shall result in the waiver of any right to request an adjudicatory hearing. Where the Department is not required under 310 CMR 7.00 to provide a public comment period on the proposed decision, then an aggrieved person or ten persons group is not required to submit public comments as a prerequisite for obtaining the right to request an adjudicatory hearing. (e) <u>Copy of Department's Decision</u>. Any person or ten persons group who wants to receive a copy of a decision on the date the Department issues the decision to the applicant shall submit a written request to the Department's contact person's electronic mail address and/or mailing address listed in the public notice.

(d) <u>Final Decision</u>. The Department's decision to issue an approval or disapproval is final either:

1. 22 days from the issuance date; or

2. If an aggrieved person or a ten persons group files a request for an adjudicatory hearing in accordance with 310 CMR 7.51(1)(h) within 21 days from the issuance date, then when the Commissioner issues a Final Decision pursuant to 310 CMR 1.01(14): *Decisions*.

After the issuance of final decision, a stay of the final decision shall be governed by M.G.L. c. 30A, § 14.

7.51: continued

(g) <u>Persons Who Have a Right to Request an Adjudicatory Hearing.</u> The following persons shall have the right to request an adjudicatory hearing on the Department decision:

1. The applicant.

2. An aggrieved person who has submitted written comments in accordance with 310 CMR 7.51(1)(d), where applicable.

3. A ten persons group that has submitted written comments in accordance with 310 CMR 7.51(1)(d), where applicable.

(h) <u>Process for Requesting an Adjudicatory Hearing</u>.

1. To request an adjudicatory hearing, a person who has the right to request an adjudicatory hearing shall file a notice of claim for an adjudicatory hearing pursuant to 310 CMR 1.01: *Adjudicatory Proceeding Rules for the Department of Environmental Protection* within 21 days from the date of issuance.

2. The notice of claim for an adjudicatory hearing shall meet all the requirements contained in 310 CMR 1.01: *Adjudicatory Proceeding Rules for the Department of Environmental Protection*. An aggrieved person, or a ten persons group, shall send a copy of the request for an adjudicatory hearing by first class mail to the applicant and to the Department's contact person listed in the decision.

3. An aggrieved person who files a request for an adjudicatory hearing shall have the burden of proof to establish his or her status as an aggrieved person as defined in 310 CMR 7.00 and shall state with specificity in the request for adjudicatory hearing the basis of his or her claim of aggrievement and the relief sought.

4. A ten persons group that files a request for an adjudicatory hearing shall clearly and specifically state the facts and grounds for the appeal and the relief sought, and each person shall file an affidavit stating the intent to be a part of the group and to be represented by its authorized representative.

(i) Limitation on Matters Raised In Request for Adjudicatory Hearing.

1. The issues that may be raised in a request for an adjudicatory hearing are limited to the subject matter of the Department's decision.

2. If the Department provided a public comment period, the issues that may be raised in a request for an adudicatory hearing are further limited to the matters raised during the public comment period; provided, however, that a matter may be raised upon showing that it was not reasonably possible with due diligence to have raised such matter during the public comment period or for good cause shown.

(2) <u>Hearings on Facilities Regulated by the Department of Public Utilities</u>. Upon receipt of a proposal for the construction, substantial reconstruction or alteration and subsequent operation of any facility regulated by the Department of Public Utilities, insofar as the facility may have an impact on air quality, the Department shall hold a public hearing prior to consideration for approval or disapproval of said facility.

(3) Enforcement Provisions and Appeals of Certain Orders.

(a) <u>General</u>. A person whose activities are governed by M.G.L. c. 111, §§ 142A through 142O and 310 CMR 7.00, or by M.G.L. c. 111, § 150A as it relates to 310 CMR 7.08(2), or by M.G.L. c. 21C or 21E as they relate to sections of 310 CMR 7.00 as cited therein, who fails to comply fully with the provisions of such statutes and regulations, or to comply fully with the terms and conditions of any order, permit, authorization, determination, or approval issued thereunder, or who acts without an order, permit, authorization, determination, or approval where one is required, shall be in violation of said statutes and 310 CMR 7.00. Nothing in 310 CMR 7.00, or in any order issued pursuant thereto, shall be construed to limit any right of the Department to take enforcement action pursuant to any other authority.

(b) <u>Action by the Department</u>. Without limitation, whenever the Department has cause to believe that a violation has occurred, it may:

1. Order the owner or operator of a site or facility, and/or any other person responsible for the violation, to cease all illegal activity and comply fully with the provisions of M.G.L. c. 111, §§ 142A through 142O and 310 CMR 7.00, and M.G.L. c. 111, § 150A as it relates to 310 CMR 7.08(2), and M.G.L. c. 21C and 21E, and 310 CMR 7.00, and any order, permit, authorization, determination or approval;

7.51: continued

2. Order the owner or operator of a site or facility, and/or any other person responsible for the violation, to take appropriate measures to come into compliance or to protect public health, safety or the environment;

3. Commence proceedings to rescind, suspend, revoke, or modify an order, permit, authorization, determination or approval;

4. Issue a notice of non-compliance pursuant to M.G.L. c. 21A, § 16 and 310 CMR 5.00: *Administrative Penalty*;

5. Assess a civil administrative penalty pursuant to M.G.L. c. 21A, § 16 and 310 CMR 5.00: *Administrative Penalty*; and/or

6. Take such other action provided by 310 CMR 7.00 or other applicable statutory or regulatory authority as the Department deems appropriate.

(c) <u>Service of Notices and Orders</u>. Service in all civil administrative penalty actions is governed by 310 CMR 5.00: *Administrative Penalty*. The Department may serve an order issued pursuant to 310 CMR 7.51(3)(b)1. or 2. according to any of the following procedures except for processes, notices, and orders issued in the course of an adjudicatory hearing which are governed by the provisions of 310 CMR 1.01 *Adjudicatory Proceedings*:

1. Service of an order is complete when it is hand delivered by an employee or agent of the Department to the person to be served or to any officer, employee, responsible official or agent of the person. The fact and date of service is established by the return or affidavit of the person making service.

2. Service of an order when made by any form of mail requiring the return of a receipt signed by the person to be served is complete upon delivery to the person or to any officer, employee, responsible official or agent of the person. The fact and date of service is established by the returned receipt.

3. The Department may make service of an order in any other manner, including any form of electronic mail, facsimile or other electronic medium, national overnight carrier, regular mail to the last known address, or other publication or method of delivery. The Department uses such alternative or substitute methods of service only when exigent circumstances require it doing so or when the person to be served declines to accept receipt or mail is returned from either of the service methods specified in 310 CMR 7.51(3)(c)1. and 2. The fact of service in such cases is established by such records as may be available. The date of service shall be the date on which the Department initiates electronic transmission, the date of publication, one day after the date of overnight mailing or three days after the date of regular mailing.

(d) <u>Right to Request an Adjudicatory Hearing</u>. Pursuant to M.G.L. c. 111, § 142B, a person who is the subject of an order issued pursuant to 310 CMR 7.51(3)(b)1. or 2. shall have the right to request an adjudicatory hearing on such order within ten calendar days of the date of service of the order by the procedures set forth herein and in 310 CMR 1.01: *Adjudicatory Proceeding Rules for the Department of Environmental Protection*. Any right to an adjudicatory hearing concerning assessment of a civil administrative penalty shall be determined in accordance with the provisions of 310 CMR 1.01 and 310 CMR 5.00: *Administrative Penalty*.

(e) <u>Waiver of Right to Request an Adjudicatory Hearing</u>. Any person who is the subject of an order issued pursuant to 310 CMR 7.51(3)(b)1. or 2. shall be deemed to have waived the right to request an adjudicatory hearing unless within ten calendar days of the date of service of the order the Department receives a written statement setting forth the basis for the request for an adjudicatory hearing that complies with 310 CMR 1.01: *Adjudicatory Proceedings*.

7.52: U Enforcement Provisions.

Any police department, fire department, or board of health official, acting within his or her jurisdictional area is hereby authorized by the Department to enforce, as provided for in M.G.L. c. 111, § 142B, any regulation in which specific reference to 310 CMR 7.52 is cited.

7.54: U Large Combustion Emission Units

(1) <u>Applicability</u>. As set forth in 310 CMR 7.02(3) and (5)(a)11., a Comprehensive Plan Application is required from any person prior to substantially reconstructing one or more large combustion emission units resulting in a major modification. The requirements of 310 CMR 7.54 shall not apply to a pollutant if the facility is located in an area designated as non-attainment under the Clean Air Act, § 107 (42 U.S.C. 7407), for that pollutant.

(2) <u>Definitions</u>. The definitions in 310 CMR 7.00 apply to 310 CMR 7.54. However, the following terms have the following meanings when they appear in 310 CMR 7.54. If a term is defined both in 310 CMR 7.00 and .54(2), the definition in 310 CMR 7.54(2) applies for purposes of 310 CMR 7.54.

<u>Actual Emissions</u> means the actual rate of emissions of a pollutant from an emissions unit, as determined in accordance with 310 CMR 7.54: <u>Actual Emissions(a)</u> through (c).

(a) In general, actual emissions as of a particular date shall equal the average rate, in tons per year, at which the unit actually emitted the p'ollutant during a two-year period which precedes the particular date and which is representative of normal operation. The Department shall allow the use of a different time period upon a determination that it is more representative of normal operation. Actual emissions shall be calculated using the unit's actual operating hours, production rates, and types of materials processed, stored, or combusted during the selected time period.

(b) For any emissions unit (other than an electric utility steam generating unit specified in 310 CMR 7.54: <u>Actual Emissions(c)</u>), which has not begun normal operations on the particular date, actual emissions shall equal the potential to emit of the unit on that date.

(c) For an electric utility steam generating unit (other than a new unit or the replacement of an existing unit), actual emissions of the unit following the physical or operational change shall equal the representative actual annual emissions of the unit, provided the facility owner or operator maintains and submits to the Department on an annual basis for a period of five years from the date the unit resumes regular operation, information demonstrating that the physical or operational change did not result in an emissions increase. A longer period, not to exceed ten years, may be required by the Department if it determines such a period to be more representative of normal facility post-change operations.

<u>Allowable Emissions</u> means the emissions rate of a facility calculated using the maximum rated capacity of the LCEU(s) (unless the LCEU is subject to federally enforceable limits which restrict the operating rate, or hours of operation, or both) and the most stringent emission standard, including one with a future compliance date.

<u>Begin Actual Construction</u> means, in general, initiation of physical on-site construction activities on an LCEU, which are of a permanent nature. Such activities include, but are not limited to, installation of building supports and foundations, laying underground pipe work and construction of permanent storage structures. With respect to a change in method of operations, this term refers to those on-site activities other than preparatory activities which mark the initiation of the change.

<u>Commence</u> as applied to construction of an LCEU means that the owner or operator has all necessary plan approvals required pursuant to 310 CMR 7.02 and either has:

(a) Begun, or caused to begin, a continuous program of actual on-site construction of the LCEU, to be completed within a reasonable time; or

(b) Entered into binding agreements or contractual obligations, which cannot be cancelled or modified without substantial loss to the owner or operator, to undertake a program of actual construction of the LCEU to be completed within a reasonable time.

<u>Complete</u> means, in reference to an application for a plan approval, that the application contains all of the information necessary for processing the application.

<u>Construction</u> means any physical change or change in the method of operation (including fabrication, erection, installation, demolition, or modification of an emissions unit) which would result in a change in actual emissions.

<u>Electric Utility Steam Generating Unit</u> means any steam electric generating unit that is constructed for the purpose of supplying more than one-third of its potential electric output capacity and more than 25 MW electrical output to any utility power distribution system for sale. Any steam supplied to a steam distribution system for the purpose of providing steam to a steamelectric generator that would produce electrical energy for sale is also considered in determining the electrical energy output capacity of the affected facility.

<u>Indirect Heat Exchanger</u> means combustion equipment in which the flame or the products of combustion are separated from any contact with the principal material in the process by metallic or refractory walls. It includes, but is not limited to, steam boilers (including combustion turbines with Heat Recovery Steam Generators), vaporizers, melting pots, heat exchangers, column reboilers, fractioning column feed preheaters, reactor feed preheaters, fuel-fired reactors such as steam hydrocarbon reformer heaters and pyrolysis heaters.

Large Combustion Emission Unit (LCEU) means either:

(a) an indirect heat exchanger with an energy input capacity greater than or equal to 250,000,000 Btu per hour, or

(b) a municipal waste combustor with a capacity greater than 250 tons per day of municipal solid waste.

<u>Major Modification</u> means any physical change or change in the method of operation of large combustion emission unit(s) at a facility that would result in a significant net emissions increase of any pollutant subject to regulation under the Clean Air Act. A physical change or change in the method of operation shall not include:

- (a) Routine maintenance, repair and replacement;
- (b) Use of an alternative fuel or raw material by an LCEU which:

1. The LCEU was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable condition which was established after January 6, 1975; or

2. The LCEU is approved to use under any plan approval issued under 310 CMR 7.02;(c) An increase in the hours of operation or in the production rate, unless such change would be prohibited under any federally enforceable condition which was established after January 6, 1975; or

(d) Any change in ownership at a facility; or

(e) The addition, replacement or use of a pollution control project at an existing LCEU, unless the Department determines that such addition, replacement, or use renders the unit less environmentally beneficial; or

(f) The installation, operation, cessation, or removal of a temporary clean coal technology demonstration project, provided that the project complies with all applicable requirements.

<u>Net Emissions Increase</u> means the amount by which the sum of the following exceeds zero:

(a) Any increase in actual emissions from a particular physical change or change in method of operation of LCEU(s) at the facility; and

(b) Any other increases and decreases in actual emissions from LCEUs at the facility that are contemporaneous with the particular change and are otherwise creditable.

(c) An increase or decrease in actual emissions is contemporaneous with the increase from the particular change only if it occurs between:

- 1. The date five years before construction of the particular change commences; and
- 2. The date that the increase from the particular change occurs.
- (d) An increase or decrease in actual emissions is creditable only if:

1. the Department has not relied on it in issuing a plan approval required pursuant to 310 CMR 7.54, or a PSD (Prevention of Significant Deterioration) permit pursuant to 40 CFR 52.21 (Note: Prior to March 3, 2003 the Department issued PSD permits in Massachusetts), and

2. the plan approval or PSD permit is in effect when the increase in actual emissions from the particular change occurs.

(e) With respect to particulate matter, only PM-10 emissions can be used to evaluate the net emissions increase for PM-10.

(f) An increase in actual emissions is creditable only to the extent that the new level of actual emissions exceeds the old level.

(g) A decrease in actual emissions is creditable only to the extent that:

1. The old level of actual emissions or the old level of allowable emissions, whichever is lower, exceeds the new level of actual emissions;

2. It is federally enforceable at and after the time that actual construction of the particular change begins; and

3. It has approximately the same qualitative significance for public health and welfare as that attributed to the increase from the particular change.

(h) An increase that results from a physical change at a facility occurs when the LCEU on which construction occurred becomes operational and begins to emit a particular pollutant. Any replacement unit that requires shakedown becomes operational only after a reasonable shakedown period, not to exceed 180 days.

<u>Pollution Control Project</u> means any activity or project undertaken on an LCEU for purposes of reducing emissions from such unit. Such activities or projects are limited to:

(a) The installation of conventional or innovative pollution control technology, including but not limited to:

1. conventional or advanced flue gas desulfurization, sorbent injection for sulfur dioxide, nitrogen oxides or mercury controls; or

2. electrostatic precipitators or fabric filters; or

3. selective catalytic reduction or non-selective catalytic reduction for control of oxides of nitrogen.

(b) An activity or project to accommodate switching to a fuel which is less polluting than the fuel in use prior to the activity or project, including, but not limited to natural gas or coal re-burning, or the co-firing of natural gas and other fuels for the purpose of controlling emissions.

<u>Potential to Emit</u> means the maximum capacity of a facility or emission unit to emit a pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or emission unit to emit a pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is federally enforceable. Fugitive emissions, to the extent they are quantifiable, are included in determining potential to emit. Secondary emissions do not count in determining the potential to emit of a facility.

<u>Representative Actual Annual Emissions</u> means the average rate, in tons per year, at which the LCEU is projected to emit a pollutant for the two-year period after a physical change or change in the method of operation of a unit, (or a different consecutive two-year period within ten years after that change, where the Department determines that such period is more representative of normal source operations), considering the effect any such change will have on increasing or decreasing the hourly emissions rate and on projected capacity utilization. In projecting future emissions the Department shall:

(a) Consider all relevant information, including but not limited to, historical operational data, the company's own representations, filings with the State or Federal regulatory authorities, and compliance plans under Title IV of the Clean Air Act (42 U.S.C. 7651 through 7651(o); and

(b) Exclude, in calculating any increase in emissions that results from the particular physical change or change in the method of operation at an electric utility steam generating unit, that portion of the unit's emissions following the change that could have been accommodated during the representative baseline period and is attributable to an increase in projected capacity utilization at the unit that is unrelated to the particular change, including any increased utilization due to the rate of electricity demand growth for the utility system as a whole.

<u>Significant</u> means, in reference to a net emissions increase, or the potential of a facility to emit any of the following pollutants, a rate of emissions that would equal or exceed any of the following rates:

Pollutant and Emissions Rate:

- (a) Carbon monoxide: 100 tons per year (tpy);
- (b) Nitrogen oxides: 40 tpy;
- (c) Sulfur dioxide: 40 tpy;
- (d) Particulate matter:
 - 1. 25 tpy of particulate matter emissions;
 - 2. 15 tpy of PM10 emissions.
- (e) Ozone: 40 tpy of volatile organic compounds;
- (f) Lead: 0.6 tpy;

7.54: continued

- (g) Fluorides: 3 tpy;
- (h) Sulfuric acid mist: 7 tpy;
- (i) Hydrogen sulfide $(H_2 S)$: 10 tpy;
- (j) Total reduced sulfur (including H_2 S): 10 tpy;
- (k) Reduced sulfur compounds (including H_2 S): 10 tpy;

(1) Municipal waste combustor organics (measured as total tetra- through octa-chlorinated dibenzo-p-dioxins and dibenzofurans): 3.2×10^{-6} megagrams per year (3.5×10^{-6} tons per year);

(m) Municipal waste combustor metals (measured as particulate matter): 14 megagrams per year (15 tons per year);

(n) Municipal waste combustor acid gases (measured as sulfur dioxide and hydrogen chloride): 36 megagrams per year (40 tons per year).

7.60: U Severability

Each section of 310 CMR 7.00 shall be construed as separate to the end that if any regulation or sentence, clause, or phrases thereof shall be held invalid for any reason, the remainder of 310 CMR 7.00 and all other regulations shall continue in full force.

7.70: Massachusetts CO₂ Budget Trading Program

(1) <u>CO₂ Budget Trading Program General Provisions</u>.

(a) <u>Purpose</u>. 310 CMR 7.70 establishes the Massachusetts CO₂ Budget Trading Program, which is designed to reduce anthropogenic emissions of CO₂, a greenhouse gas, from CO₂ budget sources in an economically efficient manner.
(b) Definitions.

<u>Account Number</u>. The identification number given by the Department or its agent to each CO_2 Allowance Tracking System account.

<u>Acid Rain Emissions Limitation</u>. As defined in 40 CFR 72.2, a limitation on emissions of sulfur dioxide or nitrogen oxides under the Acid Rain Program under Title IV of the Clean Air Act.

<u>Acid Rain Program</u>. Acid Rain Program means a multi-state sulfur dioxide and nitrogen oxides air pollution control and emission reduction program established by the Administrator under Title IV of the Clean Air Act, 42 U.S.C. 7401 *et seq.* and 40 CFR Parts 72 through 78.

Administrator. Administrator means the Administrator of the United States Environmental Protection Agency or the Administrator's authorized representative.

<u>Allocate or Allocation</u>. The determination by the Department of the number of CO_2 allowances to be recorded in the Voluntary Renewable Energy Account, or the Massachusetts Auction Account.

<u>Allocation Year</u>. A calendar year for which the Department allocates or awards CO_2 allowances pursuant to 310 CMR 7.70(5). The allocation year is the first year a CO_2 allowance or a CO_2 offset allowance can be used to demonstrate compliance with 310 CMR 7.70. The allocation year of each CO_2 allowance is reflected in the unique identification number given to the allowance pursuant to 310 CMR 7.70(6)(d)4.

<u>Allowance Auction or Auction</u>. An auction in which DOER offers CO_2 allowances for sale, in accordance with 225 CMR 13.00: *DOER CO₂ Budget Trading Program Auction Regulation*.

<u>Automated Data Acquisition and Handling System or DAHS</u>. That component of the continuous emissions monitoring system, or other emissions monitoring system approved for use under 310 CMR 7.70(8), designed to interpret and convert individual output signals from pollutant concentration monitors, flow monitors, diluent gas monitors, and other component parts of the monitoring system to produce a continuous record of the measured parameters in the measurement units required by 310 CMR 7.70(8).

<u>Billing Meter</u>. The measurement device used to measure electric or thermal output for commercial billing under a contract where the facility selling the electric or thermal output has a different owner(s) from the owner(s) of the party purchasing the electric or thermal output.

<u>Boiler</u>. An enclosed fossil or other fuel-fired combustion device used to produce heat and to transfer heat to recirculating water, steam, or other medium.

<u>CO₂ Allowance</u>. A limited authorization by the Department or a participating state under the CO₂ Budget Trading Program to emit up to one ton of CO₂, subject to all applicable limitations contained in 310 CMR 7.70 or equivalent regulations in other participating states.

<u>CO₂ Allowance Deduction or Deduct CO₂ Allowances</u>. The permanent withdrawal of CO₂ allowances by the Department or its agent from a CO₂ Allowance Tracking System compliance account to account for the number of tons of CO₂ emitted from a CO₂ budget source for a control period or an interim control period, determined in accordance with 310 CMR 7.70(8), or for the forfeit or retirement of CO₂ allowances as provided by 310 CMR 7.70.

<u>CO₂</u> Allowances Held or Hold CO₂ Allowances. The CO₂ allowances recorded by the Department or its agent, or submitted to the Department or its agent for recordation, in accordance with 310 CMR 7.70(6) and (7), in a CO₂ Allowance Tracking System account.

<u>CO₂ Allowance Tracking System (COATS)</u>. The system by which the Department or its agent records allocations, deductions, and transfers of CO_2 allowances under the CO_2 Budget Trading Program. The tracking system may also be used to track CO_2 emissions offset projects, CO_2 allowance prices and emissions from affected sources.

<u>CO₂ Allowance Tracking System Account</u>. An account in the CO₂ Allowance Tracking System established by the Department or its agent for purposes of recording the allocation, holding, transferring, or deducting of CO₂ allowances.

<u>CO₂ Allowance Transfer Deadline</u>. Midnight of the March 1st occurring after the end of the relevant control period and each relevant interim control period or, if that March 1st is not a business day, midnight of the first business day thereafter and is the deadline by which CO₂ allowances must be submitted for recordation in a CO₂ budget source's compliance account in order for the source to meet the CO₂ requirements under 310 CMR 7.70(1)(e)3. for the control period and each interim control period immediately preceding such deadline.

<u>CO₂ Authorized Account Representative</u>. For a CO₂ budget source and each CO₂ budget unit at the source, the natural person who is authorized by the owners and operators of the source and all CO₂ budget units at the source, in accordance with 310 CMR 7.70(2), to represent and legally bind each owner and operator in matters pertaining to the CO₂ Budget Trading Program or, for a general account, the natural person who is authorized, under 310 CMR 7.70(6), to transfer or otherwise dispose of CO₂ allowances held in the general account. If the CO₂ budget source is also subject to the Acid Rain Program then, for a CO₂ Budget Trading Program compliance account, this natural person shall be the same person as the designated representative under the Acid Rain Program.

<u>CO₂ Authorized Alternate Account Representative</u>. For a CO₂ budget source and each CO₂ budget unit at the source, the alternate natural person who is authorized by the owners and operators of the source and all CO₂ budget units at the source, in accordance with 310 CMR 7.70(2), to represent and legally bind each owner and operator in matters pertaining to the CO₂ Budget Trading Program or, for a general account, the alternate natural person who is authorized, under 310 CMR 7.70(6), to transfer or otherwise dispose of CO₂ allowances held in the general account. If the CO₂ budget source is also subject to the Acid Rain Program, then, for a CO₂ Budget Trading Program compliance account, this alternate natural person shall be the same person as the alternate designated representative under the Acid Rain Program.

<u>CO₂ Budget Emissions Control Plan</u>. The legally binding permit issued by the Department pursuant to 310 CMR 7.70(1)(e)1. and (3) to a CO₂ budget source or CO₂ budget unit which specifies the CO₂ Budget Trading Program requirements applicable to the CO₂ budget source, to each CO₂ budget unit at the CO₂ budget source, and to the owners and operators and the CO₂ authorized account representative of the CO₂ budget source and each CO₂ budget unit.

<u>CO₂ Budget Emissions Limitation</u>. For a CO₂ budget source, the tonnage equivalent, in CO₂ emissions in a control period or an interim control period, of the CO₂ allowances available for compliance deduction for the source for a control period or an interim control period.

 $\underline{CO_2 \text{ Budget Source}}$. A source that includes one or more CO_2 budget units.

<u>CO₂ Budget Trading Program</u>. A multi-state CO_2 air pollution control and emissions reduction program established by regulation in several states, including Massachusetts pursuant to 310 CMR 7.70, for the purpose of reducing emissions of CO_2 from CO_2 budget sources.

<u>CO₂ Budget Unit</u>. A unit that is subject to the CO₂ Budget Trading Program requirements under 310 CMR 7.70(1)(d).

<u>CO₂ Cost Containment Reserve Allowance or CO₂ CCR Allowance</u>. A CO₂ allowance that is offered for sale at an auction by DOER in accordance with 225 CMR 13.00: *DOER CO₂ Budget Trading Program Auction Regulation* for the purpose of containing the cost of CO₂ allowances. CO₂ CCR allowances offered for sale at an auction are separate from and additional to CO₂ allowances from the CO₂ Budget Trading Program base budget. CO₂ CCR allowances are subject to all applicable limitations contained in 310 CMR 7.70 or equivalent regulations in other participating states.

 $\underline{CO_2 \text{ Cost Containment Reserve (CCR) Trigger Price}}$. The CCR trigger price is the minimum price at which CO_2 CCR allowances are offered for sale in an auction. The CCR trigger prices shall be established by DOER in 225 CMR 13.03: *Table 1*.

<u>CO₂ Emissions Containment Reserve Allowance or CO₂ ECR Allowance</u>. A CO₂ allowance that is withheld from sale at an auction by DOER in accordance with 225 CMR 13.00: *DOER CO₂ Budget Trading Program Auction Regulation* for the purpose of additional emission reduction in the event of lower than anticipated emission reduction costs.

<u>CO₂ Emissions Containment Reserve (ECR) Trigger Price</u>. The ECR trigger price is the price below which CO_2 allowances will be withheld from sale at an auction. The ECR trigger prices shall be established by DOER in 225 CMR 13.03: *Table 2*.

<u>CO₂ Offset Allowance</u>. A CO₂ allowance that is awarded to the sponsor of a CO₂ emissions offset project in any of the participating states that have an emissions offset program, and is subject to the relevant compliance deduction limitations of 310 CMR 7.70(6)(e)1.c.

<u>Combined Cycle System</u>. A system comprised of one or more combustion turbines, heat recovery steam generators, and steam turbines configured to improve overall efficiency of electricity generation or steam production.

<u>Combined Heat and Power (CHP) CO_2 Budget Source</u>. A CO_2 Budget Source that contains one or more CO_2 Budget Units which generate electricity and useful thermal energy in a single integrated system.

<u>Combustion Turbine</u>. An enclosed fossil or other fuel-fired device that is comprised of a compressor (if applicable), a combustor, and a turbine, and in which the flue gas resulting from the combustion of fuel in the combustor passes through the turbine, rotating the turbine.

<u>Commence Commercial Operation</u>. With regard to a unit that serves a generator, the date of commercial operation shall be when the unit begins to produce steam, gas, or other heated medium used to generate electricity for sale or use, including test generation. For a unit that is a CO₂ budget unit under 310 CMR 7.70(1)(d) on the date the unit commences commercial operation, such date shall remain the unit's date of commencement of commercial operation even if the unit is subsequently modified, reconstructed, or repowered. For a unit that is not a CO₂ budget unit under 310 CMR 7.70(1)(d) on the date the unit commences commercial operation, the date the unit becomes a CO₂ budget unit under 310 CMR 7.70(1)(d) on the date the unit commences commercial operation, the date the unit becomes a CO₂ budget unit under 310 CMR 7.70(1)(d) shall be the unit's date of commencement of commercial operation.

<u>Commence Operation</u>. To begin any mechanical, chemical, or electronic process, including, with regard to a unit, startup of a unit's combustion chamber. For a unit that is a CO_2 budget unit under 310 CMR 7.70(1)(d) on the date of commencement of operation, such date shall remain the unit's date of commencement of operation even if the unit is subsequently modified, reconstructed, or repowered. For a unit that is not a CO_2 budget unit under 310 CMR 7.70(1)(d) on the date of commencement of operation, the date the unit becomes a CO_2 budget unit under 310 CMR 7.70(1)(d) shall be the unit's date of commencement of operation.

<u>Compliance Account</u>. A CO₂ Allowance Tracking System account, established by the Department or its agent for a CO₂ budget source under 310 CMR 7.70(6), in which are held CO₂ allowances available for use by the source for a control period and each interim control period for the purpose of meeting the CO₂ requirements of 310 CMR 7.70(1)(e)3.

<u>Continuous Emissions Monitoring System or CEMS</u>. The equipment required under 310 CMR 7.70(8) to sample, analyze, measure, and provide, by means of readings recorded at least once every 15 minutes (using an automated DAHS), a permanent record of stack gas volumetric flow rate, stack gas moisture content, and oxygen or carbon dioxide concentration (as applicable), in a manner consistent with 40 CFR Part 75 and 310 CMR 7.70(8).

<u>Control Period</u>. The control period is a three-calendar-year time period. The first control period is from January 1, 2009 through December 31, 2011. Each subsequent sequential three-calendar-year period is a separate control period. The first two calendar years of each control period are each defined as an interim control period, beginning on January 1, 2015.

<u>Department</u>. The Massachusetts Department of Environmental Protection (pursuant to St. 1989, c. 240, § 101, "...the department of environmental quality engineering shall be known as the department of environmental protection").

<u>Eligible Biomass</u>. Eligible biomass includes sustainably harvested woody and herbaceous fuel sources that are available on a renewable or recurring basis (excluding old-growth timber), including dedicated energy crops and trees, agricultural food and feed crop residues, aquatic plants, unadulterated wood and wood residues, animal wastes, other clean organic wastes not mixed with other solid wastes, and biogas derived from such fuel sources. Liquid biofuels do not qualify as eligible biomass. Sustainably harvested shall be determined by the Department.

<u>Excess Emissions</u>. Any tonnage of CO_2 emitted by a CO_2 budget source during a control period that exceeds the CO_2 budget emissions limitation for the source.

Excess Interim Emissions. Any tonnage of CO_2 emitted by a CO_2 budget source during an interim control period multiplied by 0.50 that exceeds the CO_2 budget emissions limitation for the source.

<u>First Control Period Adjustment for Banked Allowances</u>. An adjustment applied to the CO_2 Budget Trading Program base budget for allocation years 2014 through 2020 to address the surplus allocation year 2009, 2010, and 2011 allowances held in general and compliance accounts, including compliance accounts established pursuant to 310 CMR 7.70(6), but not including accounts opened by participating states, that are in addition to the aggregate quality of first control period CO_2 emissions from all CO_2 budget sources in all of the participating states.

<u>Fossil Fuel</u>. Natural gas, petroleum, coal, or any form of solid, liquid, or gaseous fuel derived from such material.

Fossil Fuel-fired.

(a) With regard to a unit that commenced operation prior to January 1, 2005, the combustion of fossil fuel, alone or in combination with any other fuel, where the fossil fuel combusted comprises, or is projected to comprise, more than 50% of the annual heat input on a Btu basis during any year.

(b) With regard to a unit that commenced or commences operation on or after January 1, 2005, the combustion of fossil fuel, alone or in combination with any other fuel, where the fossil fuel combusted comprises, or is projected to comprise, more than 5% of the annual heat input on a Btu basis during any year.

<u>General Account</u>. A CO₂ Allowance Tracking System account, established under 310 CMR 7.70(6), that is not a compliance account.

Gross Generation. The electrical output (in MWe) at the terminals of the generator.

Interim Control Period. An interim control period is a one-calendar-year time period, during each of the first and second calendar years of each three year control period. The first interim control period starts on January 1, 2015 and ends on December 31, 2015. The second interim control period starts on January 1, 2016 and ends on December 31, 2016, inclusive. Each successive three-year control period will have two interim control periods, comprised of each three of the first two calendar years of that control period.

<u>Life-of-the-unit Contractual Arrangement</u>. A unit participation power sales agreement under which a customer reserves, or is entitled to receive, a specified amount or percentage of nameplate capacity and/or associated energy from any specified unit pursuant to a contract:

(a) For the life of the unit;

(b) For a cumulative term of no less than 30 years, including contracts that permit an election for early termination; or

(c) For a period equal to or greater than either 25 years, or 70% of the economic useful life of the unit determined as of the time the unit is built, with option rights to purchase or release some portion of the nameplate capacity and associated energy generated by the unit at the end of the period.

<u>Massachusetts Auction Account</u>. An account administered by DOER for purposes of auctioning CO_2 allowances in accordance with 225 CMR 13.00: *DOER CO_2 Budget Trading Program Auction Regulation*.

<u>Massachusetts CO₂</u> Budget Trading Program Adjusted Budget. The Massachusetts CO₂ Budget Trading Program adjusted budget is determined in accordance with 310 CMR 7.70(5)(c)2. CO₂ CCR allowances offered for sale at an auction are separate from and additional to CO₂ allowances allocated from the Massachusetts CO₂ Budget Trading Program adjusted budget.

<u>Massachusetts CO₂ Budget Trading Program Base Budget</u>. The Massachusetts CO₂ Budget Trading Program base budget is specified in 310 CMR 7.70(5)(a). CO₂ CCR Allowances offered for sale at auction are separate from and additional to CO₂ allowances allocated from the Massachusetts CO₂ Budget Trading Program base budget.

<u>Massachusetts Department of Energy Resources or DOER</u>. The Massachusetts agency established pursuant to M.G.L. c. 25A, §§ 1 through 13.

<u>Maximum Potential Hourly Heat Input</u>. An hourly heat input used for reporting purposes when a unit lacks certified monitors to report heat input. If the unit intends to use Appendix D of 40 CFR Part 75 to report heat input, this value should be calculated, in accordance with 40 CFR Part 75, using the maximum fuel flow rate and the maximum gross calorific value. If the unit intends to use a flow monitor and a diluent gas monitor, this value should be reported, in accordance with 40 CFR Part 75, using the maximum potential flowrate and either the maximum carbon dioxide concentration (in percent CO_2) or the minimum oxygen concentration (in percent O_2).

<u>Monitoring System</u>. Any monitoring system that meets the requirements of 310 CMR 7.70(8), including a continuous emissions monitoring system, an excepted monitoring system, or an alternative monitoring system.

<u>Nameplate Capacity</u>. The maximum electrical output (in MWe) that a generator can sustain over a specified period of time when not restricted by seasonal or other deratings as measured in accordance with the United States Department of Energy standards.

<u>Net-electric Output</u>. The amount of gross generation the generator(s) produce (including, but not limited to, output from steam turbine(s), combustion turbine(s), and gas expander(s)), as measured at the generator terminals, less the electricity used to operate the plant (*i.e.*, auxiliary loads); such uses include fuel handling equipment, pumps, fans, pollution control equipment, other electricity needs, and transformer losses as measured at the transmission side of the step up transformer (*e.g.*, the point of sale).

<u>Non-CO₂ Budget Unit</u>. A unit that does not meet the applicability criteria of 310 CMR 7.70(1)(d).

<u>Operator</u>. Any person who operates, controls, or supervises a CO_2 budget unit or a CO_2 budget source and shall include, but not be limited to, any holding company, utility system, or plant manager of such a unit or source.

Owner. Any of the following persons:

(a) Any holder of any portion of the legal or equitable title in a CO_2 budget unit; or

(b) Any holder of a leasehold interest in a CO_2 budget unit, other than a passive lessor, or a person who has an equitable interest through such lessor, whose rental payments are not based, either directly or indirectly, upon the revenues or income from the CO_2 budget unit; or

(c) Any purchaser of power from a CO_2 budget unit under a life-of-the-unit contractual arrangement in which the purchaser controls the dispatch of the unit; or

(d) With respect to any general account, any person who has an ownership interest with respect to the CO_2 allowances held in the general account and who is subject to the binding agreement for the CO_2 authorized account representative to represent that person's ownership interest with respect to the CO_2 allowances.

<u>Participating State</u>. A state that is a member of the CO_2 Budget Trading Program and has promulgated a regulation consistent with 310 CMR 7.70.

<u>Receive or Receipt of</u>. When referring to the Department or its agent, to come into possession of a document, information, or correspondence (whether sent in writing or by authorized electronic transmission), as indicated in an official correspondence log, or by a notation made on the document, information, or correspondence, by the Department or its agent in the regular course of business.

<u>Recordation, Record, or Recorded</u>. With regard to CO_2 allowances, the movement of CO_2 allowances by the Department or its agent from one CO_2 Allowance Tracking System account to another.

Second Control Period Adjustment for Banked Allowances. An adjustment applied to the Massachusetts CO_2 Budget Trading Program base budget for allocation years 2015 through 2020 to address the allocation year 2012 and 2013 allowances held in general and compliance accounts, including compliance accounts established pursuant to the CO_2 Budget Trading Program, but not including accounts opened by participating states, that are in addition to the aggregate quantity of 2012 and 2013 emissions from all CO_2 budget sources in all of the participating states.

<u>Serial Number</u>. When referring to CO_2 allowances, the unique identification number assigned to each CO_2 allowance by the Department or its agent under 310 CMR 7.70(6)(d)4.

<u>Source</u>. Any governmental, institutional, commercial, or industrial structure, installation, plant, building, or facility that emits or has the potential to emit any air pollutant. A "source," including a "source" with multiple units, shall be considered a single "facility."

<u>State</u>. A U.S. State, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, Guam, and American Samoa and includes the Commonwealth of the Northern Mariana Islands.

<u>Submit or Serve</u>. To send or transmit a document, information, or correspondence to the person specified in accordance with the applicable regulation:

- (a) In person;
- (b) By United States Postal Service;
- (c) By other means of dispatch or transmission and delivery; or

(d) Compliance with any "submission", "service", or "mailing" deadline shall be determined by the date of dispatch, transmission, or mailing and not the date of receipt.

<u>Third Adjustment for Banked Allowances</u>. An adjustment applied to the Massachusetts CO_2 Budget Trading Program base budget for allocation years 2021 through 2025 to address allowances held in general and compliance accounts, including compliance accounts established pursuant to the CO_2 Budget Trading Program, but not including accounts opened by participating states, that are in addition to the aggregate quantity of emissions from all CO_2 budget sources in all of the participating states at the end of the fourth control period in 2020 and as reflected in the CO_2 Allowance Tracking System on March 15, 2021.

<u>Ton or Tonnage</u>. Any "short ton", or 2,000 pounds. For the purpose of compliance with the CO_2 requirements of 310 CMR 7.70(1)(e)3., total tons for a control period and each interim control period shall be calculated as the sum of all recorded hourly emissions (or the tonnage equivalent of the recorded hourly emissions rates) in accordance with 310 CMR 7.70(8), with any remaining fraction of a ton equal to or greater than 0.50 ton deemed to equal one ton and any fraction of a ton less than 0.50 ton deemed to equal zero tons. A short ton is equal to 0.9072 metric tons.

<u>Undistributed CO₂ Allowances</u>. CO₂ allowances originally allocated to an account pursuant to 310 CMR 7.70(5)(c) that were not distributed.

Unit. A fossil fuel-fired stationary boiler, combustion turbine, or combined cycle system.

Unit Operating Day. A calendar day in which a unit combusts any fuel.

Useful Net Thermal Energy. Energy:

(a) in the form of direct heat, steam, hot water, or other thermal form that is used in production and beneficial measures for heating, cooling, humidity control, process use, or other valid thermal end use energy requirements, excluding thermal energy used in the power production process (*e.g.*, house loads, parasitic loads); and

(b) for which fuel or electricity would otherwise be consumed.

<u>Useful Thermal Energy Account</u>. An account established for the purpose of retiring allowances pursuant to 310 CMR 7.70(5)(c)5.b.

<u>Unsold CO₂ Allowances</u>. CO₂ allowances that have been made available for sale in an auction conducted by DOER, but not sold.

<u>Voluntary Renewable Energy Account</u>. An account established for the purpose of retiring allowances pursuant to 310 CMR 7.70(5)(c)1.a.iii.

(c) <u>Measurements, Abbreviations and Acronyms</u>. Measurements, abbreviations, and acronyms used in 310 CMR 7.70 are defined as follows:

- 1. CO_2 carbon dioxide;
- $2. \quad hr-hour;\\$
- 3. lb pounds;
- 4. MMBtu one million British thermal units;
- 5. MW megawatt;
- 6. MWe megawatt electrical;
- 7. Mwh megawatt hours;
- 8. scf-standard cubic feet.

(d) <u>Applicability</u>. Any unit that, at any time on or after January 1, 2005, serves an electricity generator with a nameplate capacity equal to or greater than 25 MWe shall be a CO_2 budget unit, and any source that includes one or more such units shall be a CO_2 budget source, subject to the requirements of 310 CMR 7.70.

- (e) <u>Standard Requirements</u>.
 - 1. <u>CO₂ Budget Emission Control Plan Requirements</u>.
 - a. The CO₂ authorized account representative of each CO₂ budget source shall:
 - i. Submit to the Department a complete CO_2 budget emission control plan under 310 CMR 7.70(3)(c) in accordance with the deadlines specified in 310 CMR 7.70(3)(b); and

ii. Submit in a timely manner any supplemental information that the Department determines is necessary in order to review and approve or deny the CO_2 budget emission control plan.

b. The owners and operators of each CO_2 budget source and each CO_2 budget unit for the source shall have an approved CO_2 budget emission control plan and operate the CO_2 budget source and the CO_2 budget unit at the source in compliance with such approved CO_2 budget emission control plan.

2. Monitoring Requirements.

a. The owners and operators and, to the extent applicable, the CO_2 authorized account representative of each CO_2 budget source and each CO_2 budget unit at the source shall comply with the monitoring requirements of 310 CMR 7.70(8).

b. The emissions measurements recorded and reported in accordance with 310 CMR 7.70(8) shall be used to determine compliance by the unit with the CO_2 requirements of 310 CMR 7.70(1)(e)3.

3. <u>CO₂ Requirements</u>.

a. The owners and operators of each CO_2 budget source and each CO_2 budget unit at the source shall hold CO_2 allowances available for compliance deductions under 310 CMR 7.70(6)(e), as of the CO_2 allowance transfer deadline, in the source's compliance account in an amount not less than the total CO_2 emissions for the control period from all CO_2 budget units at the source, minus the CO_2 allowances deducted to meet the requirements of 310 CMR 7.70(1)(e)3.b., as determined in accordance with 310 CMR 7.70(6) and (8).

b. The owners and operators of each CO_2 budget source and each CO_2 budget unit at the source shall hold CO_2 allowances available for compliance deductions under 310 CMR 7.70(6)(e), as of the CO_2 allowance transfer deadline, in the CO_2 budget source's compliance account in an amount not less than the total CO_2 emissions for the interim control period from all CO_2 budget units at the CO_2 budget source multiplied by 0.50, as determined in accordance with 310 CMR 7.70(6) and (8). c. Each ton of CO_2 emitted in excess of the CO_2 budget emissions limitation for a control period shall constitute a separate violation of 310 CMR 7.70 and applicable state law.

d. Each ton of excess interim emissions shall constitute a separate violation of 310 CMR 7.70 and applicable state law.

e. A CO₂ budget unit shall be subject to the requirements under 310 CMR 7.70(1)(e)3.a. on January 1, 2009 or the date on which the unit commences operation, whichever comes later.

f. CO_2 allowances shall be held in, deducted from, or transferred among CO_2 Allowance Tracking System accounts in accordance with 310 CMR 7.70(5) through (7).

g. A CO₂ allowance shall not be deducted in order to comply with the requirements under 310 CMR 7.70(1)(e)3.a. and b. for a control period or interim control period that ends prior to the year for which the CO₂ allowance was allocated. A CO₂ offset allowance shall not be deducted in order to comply with the requirements under 310 CMR 7.70(1)(e)3.a. beyond the applicable percent limitations set out in 310 CMR 7.70(6)(e)1.c.

h. A CO₂ allowance under the CO₂ Budget Trading Program is a limited authorization by the Department or a participating state to emit one ton of CO₂ in accordance with the CO₂ Budget Trading Program. No provision of the CO₂ Budget Trading Program, the application for a CO₂ budget emissions control plan, or the approved CO₂ budget emissions control plan, or any provision of law shall be construed to limit the authority of the State to terminate or limit such authorization. i. A CO₂ allowance under the CO₂ Budget Trading Program does not constitute a property right.

4. Excess Emissions Requirements. The owners and operators of a CO_2 budget source that has excess emissions in any control period or excess interim emissions in any interim control period shall:

a. Forfeit the CO_2 allowances required for deduction under 310 CMR 7.70(6)(e)4.a., provided CO_2 offset allowances may not be used to cover any part of such excess emissions; and,

b. Pay any fine, penalty, or assessment or comply with any other remedy imposed under 310 CMR 7.70(6)(e)4.b.

5. <u>Recordkeeping and Reporting Requirements</u>.

a. Unless otherwise provided, the owners and operators of the CO_2 budget source and each CO_2 budget unit at the source shall keep on site at the source each of the following documents for a period of ten years from the date the document is created. This period may be extended for cause, at any time prior to the end of ten years, in writing by the Department.

i. The account certificate of representation for the CO_2 authorized account representative for the source and each CO_2 budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with 310 CMR 7.70(2)(d), provided that the certificate and documents shall be retained on site at the source beyond such tenyear period until such documents are superseded because of the submission of a new account certificate of representation changing the CO_2 authorized account representative.

ii. All emissions monitoring information, in accordance with 310 CMR 7.70(8) and 40 CFR 75.57.

iii. Copies of all reports, compliance certifications, and other submissions and all records made or required under the CO₂ Budget Trading Program.

iv. Copies of all documents used to complete an application for a CO_2 budget emissions control plan and any other submission under the CO_2 Budget Trading Program or to demonstrate compliance with the requirements of the CO_2 Budget Trading Program.

b. The CO_2 authorized account representative of a CO_2 budget source and each CO_2 budget unit at the source shall submit the reports and compliance certifications required under the CO_2 Budget Trading Program, including those under 310 CMR 7.70(4).

6. <u>Liability</u>.

a. No revision to a CO_2 budget emissions control plan shall excuse any violation of the requirements of the CO_2 Budget Trading Program that occurs prior to the date that the revision takes effect.

b. Any provision of the CO_2 Budget Trading Program that applies to a CO_2 budget source (including a provision applicable to the CO_2 authorized account representative of a CO_2 budget source) shall also apply to the owners and operators of such source and of the CO_2 budget units at the source.

c. Any provision of the CO₂ Budget Trading Program that applies to a CO₂ budget unit (including a provision applicable to the CO₂ authorized account representative of a CO₂ budget unit) shall also apply to the owners and operators of such unit.

7. Effect on Other Authorities.

a. No provision of the CO₂ Budget Trading Program, a CO₂ budget emissions control plan application, or an approved CO₂ budget emissions control plan, shall be construed as exempting or excluding the owners and operators and, to the extent applicable, the CO₂ authorized account representative of a CO₂ budget source or CO₂ budget unit from compliance with any other provisions of applicable State and Federal law and regulations.

8. <u>New CO₂ Budget Unit and CO₂ Budget Sources</u>. The owner or operator of a CO₂ budget unit that commences commercial operation on or after July 1, 2008 shall hold CO₂ allowances available for compliance deductions under 310 CMR 7.70(6)(e), in an amount not less than the total CO₂ emissions from the date of the initial certification of the monitor or the date of the provisional certification of the monitor, as required under 310 CMR 7.70(8)(b), whichever is earlier.

(f) <u>Computation of Time</u>.

1. Unless otherwise stated, any time period scheduled under the CO_2 Budget Trading Program to begin on the occurrence of an act or event shall begin on the day the act or event occurs.

2. Unless otherwise stated, any time period scheduled under the CO_2 Budget Trading Program to begin before the occurrence of an act or event shall be computed so that the period ends the day before the act or event occurs.

3. Unless otherwise stated, if the final day of any time period under the CO_2 Budget Trading Program falls on a weekend or a Massachusetts or Federal holiday, the time period shall be extended to the next business day.

(g) <u>Severability</u>. If any provision of 310 CMR 7.70, or its application to any particular person or circumstances, is held invalid, the remainder of 310 CMR 7.70, and the application thereof to other persons or circumstances, shall not be affected thereby.

(h) Exemption for Any Combined Heat and Power CO₂ Budget Source.

1. <u>Applicability</u>. Notwithstanding 310 CMR 7.70(1)(d), any entity owning, operating, or controlling a combined heat and power CO_2 budget source that sells its useful net thermal energy shall comply with all of the provisions of 310 CMR 7.70, except that it may subtract from its total CO_2 emissions recorded for compliance under 310 CMR 7.70(6) the amount of CO_2 emissions attributable to the production of useful net thermal energy as long as it complies with all of the provisions in 310 CMR 7.70(1)(h).

2. <u>Compliance</u>. Any entity owning, operating, or controlling a combined heat power CO_2 budget source shall comply with the requirements in 310 CMR 7.70(6)(e)2.

3. <u>Monitoring and Reporting</u>. Any entity owning, operating, or controlling a combined heat and power CO_2 budget source shall monitor and report the amount of annual CO_2 mass emissions (expressed in tons) associated with the production of useful net thermal energy pursuant to 310 CMR 7.70(8)(i) for the control period beginning 2015 and each year thereafter.

4. <u>Change to Previously Reported Emissions</u>. Any entity owning, operating, or controlling a combined heat and power CO_2 budget source that previously reported its annual CO_2 emissions for the interim control periods of 2015 and 2016 pursuant to 310 CMR 7.70(4)(a), but did not deduct its CO_2 emissions associated with the production of useful net thermal energy as allowed for under 310 CMR 7.70(1)(h), may submit revised compliance certification reports to the Department under 310 CMR 7.70(4)(a)3.d. and e., so that the Department may deduct the amount of CO_2 mass emissions attributable to the production of useful net thermal energy for the interim control periods of 2015 and 2015 and 2016 as quantified under 310 CMR 7.70(8)(i).

(2) <u>CO₂ Authorized Account Representative for CO₂ Budget Sources.</u>

(a) <u>Authorization and Responsibilities of the CO₂ Authorized Account Representative</u>.

1. Except as provided under 310 CMR 7.70(2)(b), each CO_2 budget source, including all CO_2 budget units at the source, shall have one and only one CO_2 authorized account representative, with regard to all matters under the CO_2 Budget Trading Program concerning the source or any CO_2 budget unit at the source.

2. The CO_2 authorized account representative of the CO_2 budget source shall be selected by an agreement binding on the owners and operators of the source and all CO_2 budget units at the source and shall act in accordance with the certificate of representation under 310 CMR 7.70(2)(d).

3. Upon receipt by the Department or its agent of a complete account certificate of representation under 310 CMR 7.70(2)(d), the CO_2 authorized account representative of the source shall represent and, by his or her representations, actions, inactions, or submissions, legally bind each owner and operator of the CO_2 budget source represented and each CO_2 budget unit at the source in all matters pertaining to the CO_2 Budget Trading Program, notwithstanding any agreement between the CO_2 authorized account representative and such owners and operators. The owners and operators shall be bound by any decision or order issued to the CO_2 authorized account representative by the Department or a court regarding the source or unit.

4. No CO_2 budget emissions control plan shall be issued, and no CO_2 Allowance Tracking System account shall be established for a CO_2 budget source, until the Department or its agent has received a complete account certificate of representation under 310 CMR 7.70(2)(d) for a CO_2 authorized account representative of the source and the CO_2 budget units at the source.

5. Each submission under the CO_2 Budget Trading Program shall be submitted, signed, and certified by the CO_2 authorized account representative for each CO_2 budget source on behalf of which the submission is made. Each such submission shall include the following certification statement by the CO_2 authorized account representative: "I am authorized to make this submission on behalf of the owners and operators of the CO_2 budget sources or CO_2 budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

6. The Department or its agent shall accept or act on a submission made on behalf of owners or operators of a CO_2 budget source or a CO_2 budget unit only if the submission has been made, signed, and certified in accordance with 310 CMR 7.70(2)(a)5.

(b) <u>CO₂ Authorized Alternate Account Representative</u>.

1. An account certificate of representation may designate one and only one CO_2 authorized alternate account representative who may act on behalf of the CO_2 authorized account representative. The agreement by which the CO_2 authorized alternate account representative is selected shall include a procedure for authorizing the CO_2 authorized alternate account representative to act in *lieu* of the CO_2 authorized account representative.

2. Upon receipt by the Department or its agent of a complete account certificate of representation under 310 CMR 7.70(2)(d), any representation, action, inaction, or submission by the CO_2 authorized alternate account representative shall be deemed to be a representation, action, inaction, or submission by the CO_2 authorized account representative.

3. Except in 310 CMR 7.70(2)(b) and 310 CMR 7.70(2)(a)1., (c), (d), and (6)(b), whenever the term "CO₂ authorized account representative" is used in 310 CMR 7.70, the term shall be construed to include the CO₂ authorized alternate account representative.

(c) <u>Changing the CO₂ Authorized Account Representative and the CO₂ Authorized Alternate Account Representative; Changes in the Owners and Operators.</u>

1. <u>Changing the CO₂ Authorized Account Representative</u>. The CO₂ authorized account representative may be changed at any time upon receipt by the Department or its agent of a superseding complete account certificate of representation under 310 CMR 7.70(2)(d). Notwithstanding any such change, all representations, actions, inactions, and submissions by the previous CO₂ authorized account representative or alternate CO₂ authorized account representative or its agent receives the superseding account certificate of representation shall be binding on the new CO₂ authorized account representative and the owners and operators of the CO₂ budget units at the source.

2. <u>Changing the CO₂ Authorized Alternate Account Representative</u>. The CO₂ authorized alternate account representative may be changed at any time upon receipt by the Department or its agent of a superseding complete account certificate of representation under 310 CMR 7.70(2)(d). Notwithstanding any such change, all representations, actions, inactions, and submissions by the previous CO₂ authorized account representative or CO₂ authorized alternate account representative prior to the time and date when the Department or its agent receives the superseding account certificate of representation shall be binding on the new CO₂ authorized alternate account representative and the owners and operators of the CO₂ budget source and the CO₂ budget units at the source.

3. <u>Changes in the Owners and Operators</u>.

a. In the event a new owner or operator of a CO_2 budget source or a CO_2 budget unit is not included in the list of owners and operators submitted in the account certificate of representation, such new owner or operator shall be deemed to be subject to and bound by the account certificate of representation, the representations, actions, inactions, and submissions of the CO_2 authorized account representative and any CO_2 authorized alternate account representative of the source or unit, and the decisions, orders, actions, and inactions of the Department, as if the new owner or operator were included in such list.

b. Within 30 days following any change in the owners and operators of a CO_2 budget source or a CO_2 budget unit, including the addition of a new owner or operator, the CO_2 authorized account representative or CO_2 authorized alternate account representative shall submit a revision to the account certificate of representation amending the list of owners and operators to include the change.

(d) <u>Account Certificate of Representation</u>.

1. A complete account certificate of representation for a CO_2 authorized account representative or a CO_2 authorized alternate account representative shall include the following elements in a format prescribed by the Department or its agent:

a. Identification of the CO_2 budget source and each CO_2 budget unit at the source for which the account certificate of representation is submitted;

b. The name, address, email address, telephone number, and facsimile transmission number of the CO_2 authorized account representative and any CO_2 authorized alternate account representative;

c. A list of the owners and operators of the CO_2 budget source and of each CO_2 budget unit at the source;

d. The following certification statement by the CO_2 authorized account representative and any CO_2 authorized alternate account representative: "I certify that I was selected as the CO_2 authorized account representative or CO_2 authorized alternate account representative, as applicable, by an agreement binding on the owners and operators of the CO_2 budget source and each CO_2 budget unit at the source. I certify that I have all the necessary authority to carry out my duties and responsibilities under the CO_2 Budget Trading Program on behalf of the owners and operators of the CO_2 budget source and of each CO_2 budget unit at the source and that each such owner and operator shall be fully bound by my representations, actions, inactions, or submissions and by any decision or order issued to me by the Department or a court regarding the source or unit."; and,

e. The signature of the CO_2 authorized account representative and any CO_2 authorized alternate account representative and the dates signed.

2. Unless otherwise required by the Department or its agent, documents of agreement referred to in the account certificate of representation shall not be submitted to the Department or its agent. Neither the Department nor its agent shall be under any obligation to review or evaluate the sufficiency of such documents, whether or not submitted.

(e) <u>Objections Concerning the CO₂ Authorized Account Representative</u>.

1. Once a complete account certificate of representation under 310 CMR 7.70(2)(d) has been submitted and received, the Department and its agent shall rely on the account certificate of representation unless and until the Department or its agent receives a superseding complete account certificate of representation under 310 CMR 7.70(2)(d). 2. Except as provided in 310 CMR 7.70(2)(c)1. or 2., no objection or other communication submitted to the Department or its agent concerning the authorization, or any representation, action, inaction, or submission of the CO₂ authorized account representative shall affect any representation, action, inaction, or submission of the CO₂ authorized account representative or the finality of any decision or order by the Department or its agent under the CO₂ Budget Trading Program.

3. Neither the Department nor its agent shall adjudicate any private legal dispute concerning the authorization or any representation, action, inaction, or submission of any CO_2 authorized account representative, including private legal disputes concerning the proceeds of CO_2 allowance transfers.

(f) <u>Delegation by CO₂ Authorized Account Representative and CO₂ Authorized Alternate Account Representative</u>.

1. A CO_2 authorized account representative may delegate, to one or more natural persons, his or her authority to make an electronic submission to the Department or its agent under 310 CMR 7.70.

2. A CO_2 authorized alternate account representative may delegate, to one or more natural persons, his or her authority to make an electronic submission to the Department or its agent under 310 CMR 7.70.

3. In order to delegate authority to make an electronic submission to the Department or its agent in accordance with 310 CMR 7.70(2)(f)1. and 2., the CO_2 authorized account representative or CO_2 authorized alternate account representative, as appropriate, shall submit to the Department or its agent a notice of delegation, in a format prescribed by the Department that includes the following elements:

a. The name, address, email address, telephone number, and facsimile transmission number of such CO_2 authorized account representative or CO_2 authorized alternate account representative;

b. The name, address, email address, telephone number and facsimile transmission number of each such natural person, herein referred to as the "electronic submission agent";

c. For each such natural person, a list of the type of electronic submissions under 310 CMR 7.70(2)(f)1. and 2. for which authority is delegated to him or her; and,

d. The following certification statements by such CO_2 authorized account representative or CO_2 authorized alternate account representative:

i. "I agree that any electronic submission to the Department or its agent that is by a natural person identified in this notice of delegation and of a type listed for such electronic submission agent in this notice of delegation and that is made when I am a CO_2 authorized account representative or CO_2 authorized alternate account representative, as appropriate, and before this notice of delegation is superseded by another notice of delegation under 310 CMR 7.70(2)(f)4. shall be deemed to be an electronic submission by me."

ii. "Until this notice of delegation is superseded by another notice of delegation under 310 CMR 7.70(2)(f)4., I agree to maintain an email account and to notify the Department or its agent immediately of any change in my email address unless all delegation authority by me under 310 CMR 7.70(2)(f) is terminated."

4. A notice of delegation submitted under 310 CMR 7.70(2)(f)3. shall be effective, with regard to the CO₂ authorized account representative or CO₂ authorized alternate account representative identified in such notice, upon receipt of such notice by the Department or its agent and until receipt by the Department or its agent of a superseding notice of delegation by such CO₂ authorized account representative or CO₂ authorized alternate account representative as appropriate. The superseding notice of delegation may replace any previously identified electronic submission agent, add a new electronic submission agent, or eliminate entirely any delegation of authority.

5. Any electronic submission covered by the certification in 310 CMR 7.70(2)(f)3.d.i. and made in accordance with a notice of delegation effective under 310 CMR 7.70(2)(f)4. shall be deemed to be an electronic submission by the CO_2 authorized account representative or CO_2 authorized alternate account representative submitting such notice of delegation.

6. A CO_2 authorized account representative may delegate, to one or more natural persons, his or her authority to review information in the CO_2 allowance tracking system under 310 CMR 7.70.

7. A CO_2 authorized alternate account representative may delegate, to one or more natural persons, his or her authority to review information in the CO_2 allowance tracking system under 310 CMR 7.70.

8. In order to delegate authority to review information in the CO_2 allowance tracking system in accordance with 310 CMR 7.70(2)(f) and (g), the CO_2 authorized account representative or CO_2 authorized alternate account representative, as appropriate, must submit to the Department or its agent a notice of delegation, in a format prescribed by the Department that includes the following elements:

a. The name, address, e-mail address, telephone number, and facsimile transmission number of such CO_2 authorized account representative or CO_2 authorized alternate account representative;

b. The name, address, e-mail address, telephone number and facsimile transmission number of each such natural person, herein referred to as the "reviewer";

c. For each such natural person, a list of the type of information under 310 CMR 7.70(2)(f) or (g) for which authority is delegated to him or her; and

d. The following certification statements by such CO_2 authorized account representative or CO_2 authorized alternate account representative:

(i) "I agree that any information that is reviewed by a natural person identified in this notice of delegation and of a type listed for such information accessible by the reviewer in this notice of delegation and that is made when I am a CO_2 authorized account representative or CO_2 authorized alternate account representative, as appropriate, and before this notice of delegation is superseded by another notice of delegation under 310 CMR 7.70(2)(f)9. shall be deemed to be a reviewer by me."

(ii) "Until this notice of delegation is superseded by another notice of delegation under 310 CMR 7.70(2)(f)9., I agree to maintain an email account and to notify the Department or its agent immediately of any change in my e-mail address unless all delegation authority by me under section 310 CMR 7.70(2)(f) is terminated."

9. A notice of delegation submitted under 310 CMR 7.70(2)(f)8. shall be effective, with regard to the CO_2 authorized account representative or CO_2 authorized alternate account representative identified in such notice, upon receipt of such notice by the Department or its agent and until receipt by the Department or its agent of a superseding notice of delegation by such CO_2 authorized account representative or CO_2 authorized alternate account representative or CO_2 authorized alternate account representative or CO_2 authorized alternate account representative as appropriate. The superseding notice of delegation may replace any previously identified reviewer, add a new reviewer, or eliminate entirely any delegation of authority.

(3) <u>CO₂ Budget Emission Control Plan Requirements</u>.

(a) <u>CO₂ Budget Emission Control Plan Requirements</u>. The owners and operators of CO₂ budget sources shall have an approved CO₂ budget emission control plan issued by the Department pursuant to 310 CMR 7.70(1)(e)1. that contains all applicable CO₂ Budget Trading Program requirements under 310 CMR 7.70(3)(c). Owners and operators of CO₂ budget sources shall comply with the approved CO₂ budget emission control plan.

(b) <u>Submission of CO₂ Budget Emission Control Plan</u>. For any CO₂ budget source, the CO₂ authorized account representative shall submit a complete CO₂ budget emission control plan under 310 CMR 7.70(3)(c) covering such CO₂ budget source to the Department on or before August 1, 2008 or 12 months before the date on which the CO₂ budget source, or a new unit at the source, commences operation, whichever is later.

(c) <u>CO₂ Budget Emission Control Plan Contents</u>. A complete CO₂ budget emission control plan shall include the following elements concerning the CO₂ budget source in a format prescribed by the Department:

1. Identification of the CO_2 budget source, including plant name and the ORIS (Office of Regulatory Information Systems) or facility code assigned to the source by the Energy Information Administration of the United States Department of Energy, if applicable;

2. Identification of each CO_2 budget unit at the CO_2 budget source;

3. A compliance account identification number for each CO_2 budget source;

4. For CO_2 budget sources subject to 40 CFR Part 72, a statement that the CO_2 authorized account representative shall ensure that the CO_2 budget unit will have an EPA approved monitoring plan in place that meets the requirements of 310 CMR 7.70(8) prior to operation. Any modification to a CO_2 budget unit's monitoring methodology approved pursuant to the requirements of 40 CFR Part 72, and meeting the requirements of 310 CMR 7.70(8), are hereby incorporated into the approved emission control plan under 310 CMR 7.70;

5. For CO_2 budget sources not subject to 40 CFR Part 72, a statement that the CO_2 authorized account representative shall ensure that the CO2 budget unit will have an EPA approved monitoring plan in place that meets the requirements of 310 CMR 7.70(8) prior to operation;

6. For CO_2 budget sources that have an approved output monitoring plan as of March 9, 2018, a statement that the CO_2 budget sources have an output monitoring plan that meets the requirements in 310 CMR 7.70(8);

7. For CO_2 budget sources that do not have an approved output monitoring plan as of March 9, 2018, a detailed output monitoring plan that meets the requirements of 310 CMR 7.70(8);

8. The standard requirements under 310 CMR 7.70(1)(e); and

9. Any other information requested by the Department.

(d) Approval of CO_2 budget emission control plans. After reviewing the proposed CO_2 budget emissions control plan, the Department shall:

1. Issue a proposed disapproval of the CO_2 budget emission control plan, a proposed approval of the CO_2 budget emissions control plan, or a proposed approval of the CO_2 budget emission control plan with conditions, based on whether the CO_2 budget emission control plan as submitted meets the requirements of 310 CMR 7.70;

2. Notify the public of the Department's proposed action by publishing a notice in the *Environmental Monitor*;

3. Make available on its website all related materials;

4. Allow not less than 21 days for public comment;

5. Make all comments available for public inspection; and

6. Notify the applicant and publish on the Department's website the final approval of the CO_2 budget emission control plan, the final approval of the CO_2 budget emission control plan with conditions, or a disapproval of the CO_2 budget emission control plan.

(e) CO_2 budget emission control plan approvals issued to a CO_2 budget source that changes ownership are binding upon the new owner.

(f) <u>Revisions to CO₂ Budget Emission Control Plans</u>.

1. At any time, the Department may require a CO_2 budget source to submit a revision to its CO_2 budget emission control plan.

2. If the CO_2 budget source required to submit a detailed monitoring plan pursuant to 310 CMR 7.70(3)(c)5. or 7. proposes a change in the monitoring methodology, then that CO_2 budget source shall submit a revised monitoring plan to the Department and obtain approval of the change to the CO_2 budget emission control plan by the Department prior to making the modification. The Department will modify the CO_2 budget emission control plan upon approval of the revised monitoring plan.

3. At any time, a CO_2 budget source may propose a change to its CO_2 budget emissions control plan.

(g) <u>Operating Permits</u>. If the CO_2 budget source is required to have an Operating Permit under 310 CMR 7.00: *Appendix C*, such Operating Permit shall be modified in accordance with the procedures in 310 CMR 7.00: *Appendix C*(8).

(4) <u>Compliance Certification</u>.

(a) <u>Compliance Certification Report.</u>

1. <u>Applicability and Deadline</u>. For each control period in which a CO_2 budget source is subject to the CO_2 requirements of 310 CMR 7.70(1)(e)3., the CO_2 authorized account representative of the source shall submit to the Department, by the March 1st following the relevant control period, a compliance certification report. A compliance certification report is not required as part of the compliance obligation during an interim control period.

2. <u>Contents of Report</u>. The CO_2 authorized account representative shall include in the compliance certification report under 310 CMR 7.70(4)(a)1. the following elements, in a format prescribed by the Department:

a. Identification of the source and each CO_2 budget unit at the source;

b. At the CO_2 authorized account representative's option, the serial numbers of the CO_2 allowances that are to be deducted from the source's compliance account under 310 CMR 7.70(6)(e) for the control period, including the serial numbers of any CO_2 offset allowances that are to be deducted subject to the limitations of 310 CMR 7.70(6)(e)1.c.; and

c. The compliance certification under 310 CMR 7.70(4)(a)3.

3. <u>Compliance Certification</u>. In the compliance certification report under 310 CMR 7.70(4)(a)1., the CO₂ authorized account representative shall certify, based on reasonable inquiry of those persons with primary responsibility for operating the source and the CO₂ budget units at the source in compliance with the CO₂ Budget Trading Program, whether the source and each CO₂ budget unit at the source for which the compliance certification is submitted was operated during the calendar years covered by the report in compliance with the requirements of the CO₂ Budget Trading Program, including:

a. Whether the source was operated in compliance with the CO_2 requirements of 310 CMR 7.70(1)(e)3.;

b. Whether the monitoring plan applicable to each unit at the source has been maintained to reflect the actual operation and monitoring of the unit, and contains all information necessary to attribute CO_2 emissions to the unit, in accordance with 310 CMR 7.70(8);

c. Whether all the CO_2 emissions from the units at the source were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including whether conditional data were reported in the quarterly reports in accordance with 310 CMR 7.70(8). If conditional data were reported, the owner or operator shall indicate whether the status of all conditional data has been resolved and all necessary quarterly report resubmissions have been made;

d. Whether the facts that form the basis for certification under 310 CMR 7.70(8) of each monitor at each unit at the source, or for using an excepted monitoring method or alternate monitoring method approved under 310 CMR 7.70(8), if any, have changed; and

e. If a change is required to be reported under 310 CMR 7.70(4)(a)3.d., specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor recertification.

(b) Department's Action on Compliance Certifications.

1. The Department or its agent may review and conduct independent audits concerning any compliance certification or any other submission under the CO_2 Budget Trading Program and make appropriate adjustments to the information in the compliance certifications or other submissions.

2. The Department or its agent may deduct CO_2 allowances from or transfer CO_2 allowances to a source's compliance account based on the information in the compliance certifications or other submissions, as adjusted under 310 CMR 7.70(4)(b)1.

(5) <u>CO₂ Allowance Allocations.</u>

(a) Massachusetts CO₂ Budget Trading Program Base Budget.

1. For 2018, the Massachusetts CO_2 Budget Trading Program base budget is 13,083,598 tons.

2. For 2019, the Massachusetts CO_2 Budget Trading Program base budget is 12,756,508 tons.

3. For 2020, the Massachusetts CO_2 Budget Trading Program base budget is 12,437,596 tons.

4. For 2021, the Massachusetts CO_2 Budget Trading Program base budget is 11,944,355 tons.

5. For 2022, the Massachusetts CO_2 Budget Trading Program base budget is 11,582,404 tons.

6. For 2023, the Massachusetts CO_2 Budget Trading Program base budget is 11,220,454 tons.

7. For 2024, the Massachusetts CO_2 Budget Trading Program base budget is 10,858,504 tons.

8. For 2025, the Massachusetts CO_2 Budget Trading Program base budget is 10,496,554 tons.

9. For 2026, the Massachusetts CO_2 Budget Trading Program base budget is 10,134,604 tons.

10. For 2027, the Massachusetts CO_2 Budget Trading Program base budget is 9,772,654 tons.

11. For 2028, the Massachusetts CO_2 Budget Trading Program base budget is 9,410,704 tons.

12. For 2029, the Massachusetts CO_2 Budget Trading Program base budget is 9,048,753 tons.

13. For 2030, the Massachusetts CO_2 Budget Trading Program base budget is 8,686,803 tons.

14. For 2031, and future years, the Massachusetts CO_2 Budget Trading Program base budget will be established through amendments following future program review.

- $\underline{CO_2 Allowance Allocations}.$
- 1. <u>General Allocations</u>.
 - a. <u>Voluntary Renewable Energy (VRE) Account.</u>

i. The Department shall establish a retirement account to address the voluntary purchase of Massachusetts RPS-eligible Renewable Energy Certificates by retail customers in Massachusetts. CO_2 allowances transferred into this account cannot be removed, unless they are transferred in error.

ii. Beginning in 2010, DOER will submit to the Department a report, certified by DOER, documenting:

(i) The number of Massachusetts RPS-eligible Renewable Energy Certificates purchased voluntarily by retail customers in Massachusetts in the preceding year, in Mwh;

(ii) The annual average CO_2 emission rate for electricity generation, in lbs. CO_2 /MWh as provided in the most recently available version of the *ISO New England Electric Generator Air Emissions Report* published annually by the Independent System Operator of New England;

(iii) The total number of CO_2 allowances to be retired for such voluntary purchases in Massachusetts of said Massachusetts RPS-eligible Renewable Energy Certificates; and,

(iv) All calculations used to determine the amount referenced in 310 CMR 7.70(5)(c)1.a.ii.(iii).

iii. After review of the certified report submitted to the Department pursuant to 310 CMR 7.70(5)(c)1.a.ii., the Department will allocate to the VRE Account the number of CO_2 allowances reported pursuant to 310 CMR 7.70(5)(c)1.a.ii.(iii), or 200,000 CO₂ allowances, whichever is fewer.

iv. The Department will periodically review provisions related to the VRE Account in consultation with DOER.

b. <u>Massachusetts Auction Account</u>.

i. The Department shall establish a Massachusetts Auction Account.

ii. The Department shall allocate all CO_2 allowances not allocated under 310 CMR 7.70(5)(c)1.a. to the Massachusetts Auction Account.

iii. The Department shall allocate into the Massachusetts Auction Account CO_2 CCR Allowances in the quantity specified in 310 CMR 7.70(5)(c)3.

c. <u>CO₂ Allowances Available for Allocation</u>. For allocation years 2014 through 2020, the Massachusetts CO₂ Budget Trading Program adjusted budget shall be the maximum number of allowances available for allocation in a given allocation year, except for CO₂ CCR allowances.

2. Determination of 2014 through 2020 Adjusted Budgets.

a. <u>First Control Period Adjustment for Banked Allowances</u>. By January 15, 2014, the Department established the first control period adjustment for banked allowances quantity for allocation years 2014 through 2020. Those adjustment quantities are shown in the following table:

First Control Period Adjustment for Banked Allowances						
2014	2015	2016	2017	2018	2019	2020
1,324,595	1,324,595	1,324,595	1,324,595	1,324,595	1,324,595	1,324,595

b. <u>Second Control Period Adjustment for Banked Allowances</u>. On March 15, 2014, the Department established the second control period adjustment for banked allowances quantity for allocation years 2015 through 2020. Those adjustment quantities are shown in the following table:

Second Control Period Adjustment for Banked Allowances						
2015	2016	2017	2018	2019	2020	
2,208,353	2,208,353	2,208,353	2,208,353	2,208,353	2,208,353	

c. <u>Third Adjustment for Banked Allowances</u>. On March 15, 2021, the Department shall establish the third adjustment for banked allowances quantity for allocation years 2021 through 2025 through the application of the following formula:

TABA = $((TA - TAE)/5) \times RS\%$ Where:

TABA is the third adjustment for banked allowances quantity in tons.

TA, third adjustment, is the total quantity of allowances of vintage years prior to 2021 held in general and compliance accounts, including compliance accounts established pursuant to the CO_2 Budget Trading Program, but not including accounts opened by participating states, as reflected in the CO_2 Allowance Tracking System on March 15, 2021.

TAE, third adjustment emissions, is the total quantity of 2018, 2019 and 2020 emissions from all CO_2 budget sources in all participating states, reported pursuant to CO_2 Budget Trading Program as reflected in the CO_2 Allowance Tracking System on March 15, 2021.

RS% is the Massachusetts 2021 Base Budget/The total of the 2021 Base Budgets for all the Participating States.

d. <u>CO₂ Budget Trading Program Adjusted Budgets for 2018 through 2020</u>. On April 15, 2014 the Department established the Massachusetts CO_2 Budget Trading Program adjusted budgets for allocation years 2018 through 2020. Those Adjusted Budgets are shown in the following table:

Massachusetts CO ₂ Budget Trading Adjusted Budgets					
2018	2019	2020			
9,550,650	9,223,560	8,904,648			

e. <u>CO₂ Budget Trading Program Adjusted Budgets for 2021 through 2025</u>. On April 15, 2021 the Department shall establish the Massachusetts CO_2 Budget Trading Program adjusted budgets for the 2021 through 2025 allocation years by the following formula:

AB = BB - TABA

Where:

AB is the Massachusetts CO₂ Budget Trading Program adjusted budget.

BB is the Massachusetts CO₂ Budget Trading Program base budget.

TABA is the third adjustment for banked allowances quantity in tons.

f. After making the determinations in 310 CMR 7.70(5)(c)2., the Department or its agent will publish on the Department's website the CO_2 trading program adjusted base budgets for the 2021 through 2025 allocation years.

3. Cost Containment Reserve (CCR) Allocation. Starting in the calendar year 2014 and each calendar year thereafter, the Department shall allocate CO_2 CCR allowances into the Massachusetts Auction Account, separate from and additional to, the CO_2 allowances allocated under the Massachusetts CO_2 Budget Trading Program base budget set forth in 310 CMR 7.70(5)(a). The CCR allocation is for the purpose of containing the cost of CO_2 allowances. The Department shall allocate CO_2 CCR allowances into the Massachusetts Auction Account in the following manner:

a. The Department shall initially allocate $806,984 \text{ CO}_2 \text{ CCR}$ allowances for calendar year 2014.

b. On or before January 1, 2015 and of each calendar year thereafter through 2020, the Department shall allocate CO_2 CCR allowances in an amount equal to 1,613,968, minus the number of CO_2 CCR allowances that remain in the Massachusetts Auction Account at the end of the prior calendar year. CO_2 CCR allowances that remain in the Massachusetts Auction Account at the end of the calendar year will be converted into new, current vintage year CO_2 CCR allowances pursuant to 310 CMR 7.70(5)(c)3.f.

c. On or before January 1, 2021 and each year thereafter, the Department shall allocate current vintage year CO_2 CCR allowances equal to the quantity in the table below, minus the number of CO_2 CCR allowances that remain in the Massachusetts Auction Account at the end of the prior calendar year that are converted into new CO_2 CCR allowances pursuant to 310 CMR 7.70(5)(c)3.f.

Table 1. Ma	ussachusetts C	CR Allowanc	es from 2021	Forward					
2021	2022	2023	2024	2025	2026	2027	2028	2029	2030 and each year thereafter
1,194,435	1,158,240	1,122,045	1,085,850	1,049,655	1,013,460	977,265	941,070	904,875	868,680

d. $CO_2 CCR$ allowances shall be offered for sale at an auction in which total demand for allowances, above the CCR trigger price, exceeds the number of CO_2 allowances available for purchase at the auction, not including any $CO_2 CCR$ allowances.

e. After all of the CO_2 CCR allowances in the Massachusetts Auction Account have been sold in a given calendar year, no additional CO_2 CCR allowances will be transferred into the Massachusetts Auction Account that calendar year.

f. At the end of the calendar year, the Department shall calculate the quantity of undistributed CO_2 CCR allowances remaining in the Massachusetts Auction Account. CO_2 CCR allowances equal to or less than the size of the CCR allowances limit in 310 CMR 7.70(5)(c)3.b. or c. for the following calendar year shall be converted into CO_2 CCR allowances for the following year. Any remaining CO_2 CCR allowances in the Massachusetts Auction Account not converted into CO_2 CCR allowances for the following year. Any remaining CO_2 CCR allowances for the following year shall be transferred into the Cost Containment Reserve Retirement Account established pursuant to 310 CMR 7.70(5)(c)7.

4. <u>Emissions Containment Reserve (ECR) Withholding</u>. Starting in calendar year 2021 and each year thereafter, DOER shall withhold CO_2 allowances from sale at an auction for the purpose of additional emission reductions in the event of lower than anticipated emission reduction costs. CO_2 allowances shall be withheld in accordance with the following:

a. CO_2 allowances shall be withheld from an auction if the demand for allowances would result in an auction clearing price that is less than the ECR trigger price shown in 225 CMR 13.03: *Table 2*.

b. If the CO_2 ECR trigger price is met, then the maximum quantity of CO_2 allowances that may be withheld from that auction will be equal to the quantity shown in the following table, minus the total quantity of CO_2 allowances that have been withheld from any prior auction in that calendar year.

Table 2. Massachusetts ECR Allowances 2021 Forward									
2021	2022	2023	2024	2025	2026	2027	2028	2029	2030 and each year thereafter
1,194,436	1,158,240	1,122,045	1,085,850	1,049,655	1,013,460	977,265	941,070	904,875	868,680

c. CO_2 allowances withheld from the auction because the ECR trigger price was met shall not be resold in any future auction.

d. At the end of the calendar year, DOER shall submit to the Department a report documenting the number of CO_2 allowances withheld from the auction in the preceding year because of a trigger of the Emission Containment Reserve and the Department shall transfer any CO_2 allowances withheld from the auction in that year into the Emission Containment Reserve Retirement Account established pursuant to 310 CMR 7.70(5)(c)8.

5. <u>Undistributed and Unsold CO₂ Allowances</u>.

a. The Department or DOER may retire undistributed CO_2 allowances at the end of each control period.

b. The Department or DOER may retire unsold CO_2 allowances at the end of each control period.

c. The Department may create one or more retirement accounts in the CO_2 Allowance Tracking System for the purpose of retiring CO_2 allowances. CO_2 allowances transferred into retirement accounts cannot be removed, unless they are transferred in error.

6. Useful Net Thermal Energy Retirement Account.

a. Pursuant to 310 CMR 7.70(5)(c)4.c., the Department shall create a useful net thermal energy retirement account in the RGGI CO_2 Allowance Tracking System for the purpose of retiring CO_2 allowances equal to the amount of CO_2 emissions attributable to the production of useful net thermal energy from combined heat and power CO_2 budget sources.

b. Each year, the Department shall retire CO_2 allowances equal to the amount of CO_2 emissions attributed to the production of useful net thermal energy during the prior calendar year, as quantified and reported by the CO_2 authorized account representative pursuant to under 310 CMR 7.70(8)(i).

7. Pursuant to 310 CMR 7.70(5)(c)3.f., the Department shall create a Cost Containment Reserve Retirement Account in the RGGI CO₂ Allowance Tracking System for the purpose of retiring CO₂ CCR allowances not converted into CO₂ CCR allowances for the following year pursuant to 310 CMR 7.70(5)(c)3.f.

8. Pursuant to 310 CMR 7.70(5)(c)4.d., the Department shall create an Emission Containment Reserve Retirement Account in the RGGI CO_2 Allowance Tracking System for the purpose of retiring CO_2 allowances equal to the amount of CO_2 allowances withheld from auction pursuant to 310 CMR 7.70(5)(c)4.d.

- (6) <u>CO₂ Allowance Tracking System</u>.
 - (a) <u>CO₂ Allowance Tracking System Accounts</u>.

1. <u>Compliance Accounts</u>. Consistent with 310 CMR 7.70(6)(b)1., the Department or its agent shall establish one compliance account for each CO_2 budget source. Deductions or transfers of CO_2 allowances pursuant to 310 CMR 7.70(4)(b), (6)(e), (6)(g), or (7) shall be recorded in the compliance accounts in accordance with 310 CMR 7.70(6).

2. <u>General Accounts</u>. Consistent with 310 CMR 7.70(6)(b)2., the Department or its agent shall establish, upon request, a general account for any person. Transfers of CO_2 allowances pursuant to 310 CMR 7.70(7) shall be recorded in the general account in accordance with 310 CMR 7.70(6).

(b) Establishment of Accounts.

1. <u>Compliance Accounts</u>. Upon receipt of a complete account certificate of representation under 310 CMR 7.70(2)(d), the Department or its agent shall establish a compliance account for each CO_2 budget source for which the account certificate of representation was submitted.

2. General Accounts.

a. <u>Application for General Account</u>. Any person may apply to open a general account for the purpose of holding and transferring CO_2 allowances. An application for a general account may designate one and only one CO_2 authorized account representative and one and only one CO_2 authorized alternate account representative who may act on behalf of the CO_2 authorized account representative. The agreement by which the CO_2 authorized alternate account representative to act in *lieu* of the CO_2 authorized account representative. A complete application for a general account shall be submitted to the Department or its agent and shall include the following elements in a format prescribed by the Department or its agent:

i. Name, address, email address, telephone number, and facsimile transmission number of the CO_2 authorized account representative and any CO_2 authorized alternate account representative;

ii. At the option of the CO_2 authorized account representative, organization name and type of organization;

iii. A list of all persons subject to a binding agreement for the CO_2 authorized account representative or any CO_2 authorized alternate account representative to represent their ownership interest with respect to the CO_2 allowances held in the general account;

iv. The following certification statement by the CO_2 authorized account representative and any CO_2 authorized alternate account representative: "I certify that I was selected as the CO_2 authorized account representative or the CO_2 alternate authorized account representative, as applicable, by an agreement that is binding on all persons who have an ownership interest with respect to CO_2 allowances held in the general account. I certify that I have all the necessary authority to carry out my duties and responsibilities under the CO_2 Budget Trading Program on behalf of such persons and that each such person shall be fully bound by my representations, actions, inactions, or submissions and by any order or decision issued to me by the Department or its agent or a court regarding the general account.";

v. The signature of the CO_2 authorized account representative and any CO_2 authorized alternate account representative and the dates signed; and

vi. Unless otherwise required by the Department or its agent, documents of agreement referred to in the application for a general account shall not be submitted to the Department or its agent. Neither the Department nor its agent shall be under any obligation to review or evaluate the sufficiency of such documents, whether or not submitted.

b. <u>Authorization of CO₂ Authorized Account Representative</u>.

i. Upon receipt by the Department or its agent of a complete application for a general account under 310 CMR 7.70(6)(b)2.a.:

(i) The Department or its agent shall establish a general account for the person or persons for whom the application is submitted.

(ii) The CO₂ authorized account representative and any CO₂ authorized alternate account representative for the general account shall represent and, by his or her representations, actions, inactions, or submissions, legally bind each person who has an ownership interest with respect to CO₂ allowances held in the general account in all matters pertaining to the CO₂ Budget Trading Program, notwithstanding any agreement between the CO₂ authorized account representative or any CO₂ authorized alternate account representative by the Department or its agent or a court regarding the general account.

(iii) Any representation, action, inaction, or submission by any CO_2 authorized alternate account representative shall be deemed to be a representation, action, inaction, or submission by the CO_2 authorized account representative.

ii. Each submission concerning the general account shall be submitted, signed, and certified by the CO₂ authorized account representative or any CO₂ authorized alternate account representative for the persons having an ownership interest with respect to CO_2 allowances held in the general account. Each such submission shall include the following certification statement by the CO_2 authorized account representative or any CO_2 authorized alternate account representative: "I am authorized to make this submission on behalf of the persons having an ownership interest with respect to the CO₂ allowances held in the general account. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

iii. The Department or its agent shall accept or act on a submission concerning the general account only if the submission has been made, signed, and certified in accordance with 310 CMR 7.70(6)(b)2.b.ii.

- c. <u>Changing CO₂ Authorized Account Representative and CO₂ Authorized Alternate</u> Account Representative; Changes in Persons with Ownership Interest.
 - i. The CO₂ authorized account representative for a general account may be changed at any time upon receipt by the Department or its agent of a superseding complete application for a general account under 310 CMR 7.70(6)(b)2.a. Notwithstanding any such change, all representations, actions, inactions, and submissions by the previous CO₂ authorized alternate account representative, or the previous CO₂ authorized alternate account representative, prior to the time and date when the Department or its agent receives the superseding application for a general account shall be binding on the new CO₂ authorized account representative and the persons with an ownership interest with respect to the CO₂ allowances in the general account.

ii. The CO₂ authorized alternate account representative for a general account may be changed at any time upon receipt by the Department or its agent of a superseding complete application for a general account under 310 CMR 7.70(6)(b)2.a. Notwithstanding any such change, all representations, actions, inactions, and submissions by the previous CO₂ authorized alternate account representative, or the previous CO₂ authorized alternate account representative, prior to the time and date when the Department or its agent receives the superseding application for a general account shall be binding on the new CO₂ authorized alternate account representative and the persons with an ownership interest with respect to the CO₂ allowances in the general account.

iii. In the event a new person having an ownership interest with respect to CO_2 allowances in the general account is not included in the list of such persons in the application for a general account, such new person shall be deemed to be subject to and bound by the application for a general account, the representations, actions, inactions, and submissions of the CO_2 authorized account representative and any CO_2 authorized alternate account representative, and the decisions, orders, actions, and inactions of the Department or its agent, as if the new person were included in such list.

iv. Within 30 days following any change in the persons having an ownership interest with respect to CO_2 allowances in the general account, including the addition or deletion of persons, the CO_2 authorized account representative or any CO_2 authorized alternate account representative shall submit a revision to the application for a general account amending the list of persons having an ownership interest with respect to the CO_2 allowances in the general account to include the change.

d. <u>Objections Concerning CO₂ Authorized Account Representative</u>.

i. Once a complete application for a general account has been submitted and received under 310 CMR 7.70(6)(b)2.a., the Department or its agent shall rely on the application unless and until a superseding complete application for a general account under 310 CMR 7.70(6)(b)2.a. is received by the Department or its agent. ii. Except as provided in 310 CMR 7.70(6)(b)2.c.i. and ii., no objection or other communication submitted to the Department or its agent concerning the authorization, or any representative or any CO₂ authorized alternate account representative for a general account shall affect any representation, action, inaction, or submission of the CO₂ authorized alternate account representative or the finality of any decision or order by the Department or its agent under the CO₂ Budget Trading Program.

iii. Neither the Department nor its agent shall adjudicate any private legal dispute concerning the authorization or any representation, action, inaction, or submission of the CO_2 authorized account representative or any CO_2 authorized alternate account representative for a general account, including private legal disputes concerning the proceeds of CO_2 allowance transfers.

e. <u>Delegation by CO₂ Authorized Account Representative and CO₂ Authorized</u> <u>Alternate Account Representative</u>.

i. A CO_2 authorized account representative may delegate, to one or more natural persons, his or her authority to make an electronic submission to the Department or its agent provided for under 310 CMR 7.70(6) and (7).

ii. A CO_2 authorized alternate account representative may delegate, to one or more natural persons, his or her authority to make an electronic submission to the Department or its agent provided for under 310 CMR 7.70(6) and (7).

iii. In order to delegate authority to make an electronic submission to the Department or its agent in accordance with 310 CMR 7.70(6)(b)2.e.i and ii., the CO_2 authorized account representative or CO_2 authorized alternate account representative, as appropriate, must submit to the Department or its agent a notice of delegation, in a format prescribed by the Department that includes the following elements:

(i) The name, address, e-mail address, telephone number, and facsimile transmission number of such CO_2 authorized account representative or CO_2 authorized alternate account representative;

(ii) The name, address, e-mail address, telephone number and facsimile transmission number of each such natural person, herein referred to as "electronic submission agent";

(iii) For each such natural person, a list of the type of electronic submissions under 310 CMR 7.70(6)(b)2.e.i. or ii. for which authority is delegated to him or her; and

(iv) The following certification statements by such CO_2 authorized account representative or CO_2 authorized alternate account representative:

-1. "I agree that any electronic submission to the Department or its agent that is by a natural person identified in this notice of delegation and of a type listed for such electronic submission agent in this notice of delegation and that is made when I am a CO_2 authorized account representative or CO_2 authorized alternate account representative, as appropriate, and before this notice of delegation is superseded by another notice of delegation under 310 CMR 7.70(6)(b)2.e.iv. shall be deemed to be an electronic submission by me."

-2. "Until this notice of delegation is superseded by another notice of delegation under 310 CMR 7.70(6)(b)2.e.iv., I agree to maintain an email account and to notify the Department or its agent immediately of any change in my email address unless all delegation authority by me under 310 CMR 7.70(6)(b)2.e. is terminated."

iv. A notice of delegation submitted under 310 CMR 7.70(6)(b)2.e.iii. shall be effective, with regard to the CO_2 authorized account representative or CO_2 authorized alternate account representative identified in such notice, upon receipt of such notice by the Department or its agent and until receipt by the Department or its agent of a superseding notice of delegation by such CO_2 authorized account representative or CO_2 authorized alternate account representative as appropriate. The superseding notice of delegation may replace any previously identified electronic submission agent, add a new electronic submission agent, or eliminate entirely any delegation of authority.

v. Any electronic submission covered by the certification in 310 CMR 7.70(6)(b)2.e.iii.(iv)-1. and made in accordance with a notice of delegation effective under 310 CMR 7.70(6)(b)2.e.iv. shall be deemed to be an electronic submission by the CO₂ authorized account representative or CO₂ authorized alternate account representative submitting such notice of delegation.

3. <u>Account Identification</u>. The Department or its agent shall assign a unique identifying number to each account established under 310 CMR 7.70(6)(b)1. or 2.

(c) <u>CO₂ Allowance Tracking System Responsibilities of CO₂ Authorized Account Representative</u>. Following the establishment of a CO₂ Allowance Tracking System account, all submissions to the Department or its agent pertaining to the account including, but not limited to, submissions concerning the deduction or transfer of CO₂ allowances in the account, shall be made only by the CO₂ authorized account representative for the account. (d) <u>Recordation of CO₂ Allowance Allocations</u>.

1. On or before January 31^{st} of each year, the Department or its agent shall record in the Massachusetts Auction Account the CO₂ allowances for that calendar year.

2. On or before January 31^{st} of each year, the Department or its agent shall record CO₂ allowances allocated pursuant to 310 CMR 7.70(5)(c)1.a. in the Voluntary Renewable Energy (VRE) Account for the allocation year three years in the future.

3. <u>Serial Numbers for Allocated CO₂ Allowances</u>. When allocating CO₂ allowances to, and recording them in, an account, the Department or its agent shall assign each CO₂ allowance a unique identification number that includes digits identifying the year for which the CO₂ allowance is allocated.

(e) <u>Compliance</u>.

1. <u>Allowances Available for Compliance Deduction</u>. CO_2 allowances that meet the following criteria are available to be deducted in order for a CO_2 budget source to comply with the CO_2 requirements of 310 CMR 7.70(1)(e)3. for a control period or an interim control period.

a. The CO_2 allowances, other than CO_2 offset allowances, are of allocation years that fall within a prior control period, the same control period, or the same interim control period for which the allowances will be deducted.

b. The CO_2 allowances are held in the CO_2 budget source's compliance account as of the CO_2 allowance transfer deadline for that control period or interim control period are transferred into the compliance account by a CO_2 allowance transfer correctly submitted for recordation under 310 CMR 7.70(7)(a) by the CO_2 allowance transfer deadline for that control period or interim control period.

c. For CO₂ offset allowances, the number of CO₂ offset allowances that are available to be deducted in order for a CO₂ budget source to comply with the CO₂ requirements of 310 CMR 7.70(1)(e)3. for a control period or interim control period may not exceed 3.3% of the CO₂ budget source's CO₂ emissions for that control period, or 3.3% of 0.50 times the CO₂ budget source's emissions for an interim control period, as determined in accordance with 310 CMR 7.70(6) and (8); and

d. CO_2 allowances that are not necessary for deductions for excess emissions for a prior control period under 310 CMR 7.70(6)(e)4.

2. <u>Deductions for Compliance</u>. Following the recordation, in accordance with 310 CMR 7.70(7)(b), CO₂ allowance transfers submitted for recordation in the CO₂ budget source's compliance account by the CO₂ allowance transfer deadline for a control period or interim control period, the Department or its agent shall deduct CO₂ allowances available under 310 CMR 7.70(6)(e)1. to cover the source's CO₂ emissions (as determined in accordance with 310 CMR 7.70(8)) for the control period or interim control period, as follows:

a. Until the amount of CO_2 allowances deducted equals the number of tons of total CO_2 emissions (or 0.50 times the number of tons of total CO_2 emissions for the interim control period), less any CO_2 emissions attributable to the burning of eligible biomass or the production of useful net thermal energy, determined in accordance with 310 CMR 7.70(8), from all CO_2 budget units at the CO_2 budget source for the control period or interim control period; or

b. If there are insufficient CO_2 allowances to complete the deductions in 310 CMR 7.70(6)(e)2.a., until no more CO_2 allowances available under 310 CMR 7.70(6)(e)1. remain in the compliance account.

c. After making the deductions for compliance, the Department or its agent shall notify the CO_2 authorized account representative if it believes that the CO_2 budget source exceeded its CO_2 budget emissions limitation.

3. <u>Identification of Available CO₂ Allowances by Serial Number; Default Compliance Deductions</u>.

a. The CO_2 authorized account representative for a source's compliance account may request that specific CO_2 allowances, identified by serial number, in the compliance account be deducted for emissions or excess emissions for a control period or interim control period in accordance with 310 CMR 7.70(6)(e)2. or 4. Such identification shall be made in the compliance certification report submitted in accordance with 310 CMR 7.70(4)(a).

b. The Department or its agent shall deduct CO_2 allowances for a control period or interim control period from the CO_2 budget source's compliance account, in the absence of an identification or in the case of a partial identification of available CO_2 allowances by serial number under 310 CMR 7.70(6)(e)3.a., in the following descending order:

i. First, subject to the relevant compliance deduction limitations under 310 CMR 7.70(6)(e)1.c. and 4.a., CO_2 offset allowances. CO_2 offset allowances shall be deducted in chronological order (*i.e.*, CO_2 offset allowances from earlier allocation years shall be deducted before CO_2 offset allowances from later allocation years). In the event that some, but not all, CO_2 offset allowances from a particular allocation year are to be deducted, CO_2 offset allowances shall be deducted by serial number, with lower serial number allowances deducted before higher serial number allowances.

ii. Second, any CO_2 allowances, other than CO_2 offset allowances, that are available for deduction under 310 CMR 7.70(6)(e)1. CO_2 allowances shall be deducted in chronological order (*i.e.*, CO_2 allowances from earlier allocation years shall be deducted before CO_2 allowances from later allocation years). In the event that some, but not all, CO_2 allowances from a particular allocation year are to be deducted, CO_2 allowances shall be deducted by serial number, with lower serial number allowances deducted before higher serial number allowances.

4. <u>Deductions for Excess Emissions</u>.

a. After completing the procedures in 310 CMR 7.70(6)(e)2., the Department or its agent shall deduct from the CO_2 budget source's compliance account a number of CO_2 allowances, equal to three times the number of the source's excess emissions. In the event that a source has insufficient CO_2 allowances to cover three times the number of the source's excess emissions, the source shall be required within 14 calendar days of receipt of notice by the Department or its agent to transfer sufficient allowances into its compliance account. No CO_2 offset allowances may be deducted to account for the source's excess emissions. b. Any CO_2 allowance deduction required under 310 CMR 7.70(6)(e)4.a. shall not affect the liability of the owners and operators of the CO_2 budget source or the CO_2 units at the source for any fine, penalty, or assessment, or their obligation to comply with any other remedy, for the same violation, as ordered under applicable State law. In assessing fines, penalties or other obligations, each ton of excess emissions or excess interim emissions is a separate violation.

c. The propriety of the Department's determination that a CO_2 budget source had excess emissions and the concomitant deduction of CO_2 allowances from that CO_2 budget source's account may be later challenged in the context of the initial administrative enforcement, or any civil or criminal judicial action, arising from or encompassing that excess emissions violation. The commencement or pendency of any administrative enforcement, or civil or criminal judicial action arising from or encompassing that excess emissions violation, shall not act to prevent the Department or its agent from initially deducting the CO_2 allowances resulting from the Department's original determination that the relevant CO_2 budget source has had excess emissions. Should the Department revise its determination of the existence or extent of the CO_2 budget source's excess emissions either by a settlement or final conclusion of any administrative or judicial action, the Department shall act as follows.

i. In any instance where the Department's determination of the extent of excess emissions was too low, the Department shall take further action under 310 CMR 7.70(6)(e)4.a. and b. to address the expanded violation.

ii. In any instance where the Department's determination of the extent of excess emissions was too high, the Department shall distribute to the relevant CO_2 budget source a number of CO_2 allowances equaling the number of CO_2 allowances deducted which are attributable to the difference between the original and final quantity of excess emissions. Should such CO_2 budget source's compliance account no longer exist, the CO_2 allowances shall be provided to a general account selected by the owner or operator of the CO_2 budget source.

5. The Department or its agent shall record in the appropriate compliance account all deductions from such an account pursuant to 310 CMR 7.70(6)(e)2. and 4.

6. Action by the Department on Submissions.

a. The Department may review and conduct independent audits concerning any submission under the CO_2 Budget Trading Program and make appropriate adjustments of the information in the submissions.

b. The Department may deduct CO_2 allowances from or transfer CO_2 allowances to a source's compliance account based on information in the submissions, as adjusted under 310 CMR 7.70(6)(e)6.a.

(f) <u>Banking</u>. Each CO_2 allowance that is held in a compliance account or a general account shall remain in such account unless and until the CO_2 allowance is deducted or transferred under 310 CMR 7.70(4)(b), (6)(e), (6)(g), or (7).

(g) <u>Account Error</u>.

1. The Department or its agent may, at its sole discretion and on its own motion, correct any error in any CO_2 Allowance Tracking System account. Within ten business days of making such correction, the Department or its agent shall notify the CO_2 authorized account representative for the account.

2. At any time the CO_2 authorized account representative may notify the Department if it believes that a mistake has been made.

(h) <u>Closing of General Accounts</u>.

1. A CO₂ authorized account representative of a general account may instruct the Department or its agent to close the account by submitting a statement requesting deletion of the account from the CO₂ Allowance Tracking System and by correctly submitting for recordation under 310 CMR 7.70(7)(a) a CO₂ allowance transfer of all CO₂ allowances in the account to one or more other CO₂ Allowance Tracking System accounts.

2. If a general account shows no activity for a period of one year or more and does not contain any CO_2 allowances, the Department or its agent may notify the CO_2 authorized account representative for the account that the account shall be closed in the CO_2 Allowance Tracking System 30 business days after the notice is sent. The account shall be closed after the 30-day period unless before the end of the 30-day period the Department or its agent receives a correctly submitted transfer of CO_2 allowances into the account under 310 CMR 7.70(7)(a) or a statement submitted by the CO_2 authorized account representative demonstrating to the satisfaction of the Department or its agent will have sole discretion to determine if the owner or operator of the unit demonstrated that the account should not be closed.

(7) <u>CO₂ Allowance Transfers</u>.

(a) <u>Submission of CO₂ Allowance Transfers</u>. The CO₂ authorized account representative who is the transferor shall submit the transfer to the Department or its agent. To be considered correctly submitted, the CO₂ allowance transfer shall include the following elements in a format specified by the Department or its agent:

1. The numbers identifying both the transferor and transferee accounts;

2. A specification by serial number of each CO_2 allowance to be transferred;

3. The printed name and signature of the CO_2 authorized account representative of the transferor account and the date signed;

4. The date of the completion of the last sale or purchase transaction for the allowance, if any; and

5. The purchase or sale price of the allowance that is the subject of a sale or purchase transaction under 310 CMR 7.70(7)(a)4.

(b) <u>Recordation</u>.

1. Within five business days of receiving a CO_2 allowance transfer, except as provided in 310 CMR 7.70(7)(b)2., the Department or its agent shall record a CO_2 allowance transfer by moving each CO_2 allowance from the transferor account to the transferee account as specified by the request, provided that:

a. The transfer is correctly submitted under 310 CMR 7.70(7)(a); and

b. The transferor account includes each CO_2 allowance identified by serial number in the transfer.

2. A CO_2 allowance transfer into or out of a compliance account that is submitted for recordation following the CO_2 allowance transfer deadline and that includes any CO_2 allowances that are of allocation years that fall within a control period prior or interim control period or the same as the control period or interim control period to which the CO_2 allowance transfer deadline applies shall not be recorded until after completion of the process pursuant to 310 CMR 7.70(6)(e)2.

3. Where a CO_2 allowance transfer submitted for recordation fails to meet the requirements of 310 CMR 7.70(7)(b)1., the Department or its agent shall not record such transfer.

(c) <u>Notification</u>.

1. <u>Notification of Recordation</u>. Within five business days of recordation of a CO_2 allowance transfer under 310 CMR 7.70(7)(b), the Department or its agent shall notify each party to the transfer. Notice shall be given to the CO_2 authorized account representatives of both the transferor and transferee accounts.

2. <u>Notification of Non-recordation</u>. Within ten business days of receipt of a CO_2 allowance transfer that fails to meet the requirements of 310 CMR 7.70(7)(b)1., the Department or its agent shall notify the CO_2 authorized account representatives of both accounts subject to the transfer of:

- a. A decision not to record the transfer; and
- b. The reasons for such non-recordation.

3. Nothing in 310 CMR 7.70(7) shall preclude the submission of a CO_2 allowance transfer for recordation following notification of non-recordation.

(8) Monitoring and Reporting.

(a) General Requirements. The owners and operators, and to the extent applicable, the CO_2 authorized account representative of a CO₂ budget unit, shall comply with the monitoring, recordkeeping and reporting requirements as provided in 310 CMR 7.70(8) and all applicable sections of 40 CFR Part 75. Where referenced in 310 CMR 7.70(8), the monitoring requirements of 40 CFR Part 75 shall be adhered to in a manner consistent with the purpose of monitoring and reporting CO₂ mass emissions pursuant to 310 CMR 7.70. For purposes of complying with such requirements, the definitions in 310 CMR 7.70(1)(b) and in 40 CFR 72.2 shall apply, and the terms "affected unit," "designated representative," and "continuous emissions monitoring system" (or "CEMS") in 40 CFR Part 75 shall be replaced by the terms "CO₂ budget unit," "CO₂ authorized account representative," and "continuous emissions monitoring system" (or "CEMS"), respectively, as defined in 310 CMR 7.70(1)(b). For units not subject to an acid rain emissions limitation, the term "Administrator" in 40 CFR Part 75 shall be replaced with "the Department or its agent." Owners or operators of a CO₂ budget unit who monitor a non-CO₂ budget unit pursuant to the common, multiple, or bypass stack procedures in 40 CFR 75.72(b)(2)(ii), or 40 CFR 75.16 (b)(2)(ii)(B) as pursuant to 40 CFR 75.13, for purposes of complying with 310 CMR 7.70, shall monitor and report CO₂ mass emissions from such non-CO₂ budget units according to the procedures for CO₂ budget units established in 310 CMR 7.70(8)(a) through (g).

1. <u>Requirements for Installation, Certification, and Data Accounting</u>. The owner or operator of each CO_2 budget unit shall meet the following requirements:

a. Install all monitoring systems necessary to monitor CO_2 mass emissions in accordance with 40 CFR Part 75, except for equation G-1. Equation G-1 in Appendix G shall not be used to determine CO_2 emissions under 310 CMR 7.70(8). This may require systems to monitor CO_2 concentration, stack gas flow rate, O_2 concentration, heat input, and fuel flow rate;

b. Successfully complete all certification tests required under 310 CMR 7.70(8)(b) and meet all other requirements of 310 CMR 7.70(8) and 40 CFR Part 75 applicable to the monitoring systems under 310 CMR 7.70(8)(a)1.a.; and,

c. Record, report and quality-assure the data from the monitoring systems under 310 CMR 7.70(8)(a)1.a.

2. <u>Compliance Dates</u>. The owner or operator of a CO_2 budget unit shall meet the monitoring system certification and other requirements of 310 CMR 7.70(8)(a)1.a. through 1.c. on or before the following dates. The owner or operator of a CO_2 budget unit shall record, report and quality-assure the data from the monitoring systems under 310 CMR 7.70(8)(a)1.a. on and after the following dates.

a. The owner or operator of a CO_2 budget unit, except for a CO_2 budget unit under 310 CMR 7.70(8)(a)2.b., that commences commercial operation before July 1, 2008, must comply with the requirements of 310 CMR 7.70(8) by January 1, 2009.

b. The owner or operator of a CO_2 budget unit that commences commercial operation on or after July 1, 2008 must comply with the requirements of 310 CMR 7.70(8) by the later of the following dates:

i. January 1, 2009; or

ii. 180 calendar days after the date on which the unit commences commercial operation.

c. For the owner or operator of a CO_2 budget unit for which construction of a new stack or flue installation is completed after the applicable deadline under 310 CMR 7.70(8)(a)2.a. or 2.b. by the earlier of:

i. 90 unit operating days after the date on which emissions first exit to the atmosphere through the new stack or flue; or,

ii. 180 calendar days after the date on which emissions first exit to the atmosphere through the new stack or flue.

3. Reporting Data.

a. Except as provided in 310 CMR 7.70(8)(a)3.b., the owner or operator of a CO_2 budget unit that does not meet the applicable compliance date set forth in 310 CMR 7.70(8)(a)2.a., 2.b., and 2.c. for any monitoring system under 310 CMR 7.70(8)(a)1.a. shall, for each such monitoring system, determine, record, and report maximum potential (or as appropriate minimum potential) values for CO_2 concentration, CO_2 emissions rate, stack gas moisture content, fuel flow rate, heat input, and any other parameter required to determine CO₂ mass emissions in accordance with 40 CFR 75.31(b)(2) or (c)(3), or section 2.4 of Appendix D of 40 CFR Part 75, as applicable. The owner or operator of a CO₂ budget unit that does not meet the applicable b. compliance date set forth in 310 CMR 7.70(8)(a)2.c. for any monitoring system under 310 CMR 7.70(8)(a)1.a. shall, for each such monitoring system, determine, record, and report substitute data using the applicable missing data procedures in Subpart D or Appendix D of 40 CFR Part 75, in lieu of the maximum potential (or as appropriate minimum potential) values for a parameter if the owner or operator demonstrates that there is continuity between the data streams for that parameter

c. Low Mass Emissions (LME) Units.

i. CO_2 budget units subject to an acid rain emissions limitation that qualify for the optional SO₂, NO_x, and CO₂ emissions calculations for low mass emissions (LME) units under 40 CFR 75.19 and report emissions for such programs using the calculations under 40 CFR 75.19, shall also use the CO_2 emissions calculations for LME units under 40 CFR 75.19 for purposes of compliance with 310 CMR 7.70.

ii. CO_2 budget units subject to an acid rain emissions limitation that do not qualify for the optional SO₂, NO_x, and CO₂ emissions calculations for LME units under 40 CFR 75.19, shall not use the CO₂ emissions calculations for LME units under 40 CFR 75.19 for purposes of compliance with 310 CMR 7.70.

iii. CO_2 budget units not subject to an acid rain emissions limitation shall qualify for the optional CO_2 emissions calculation for LME units under 40 CFR 75.19, provided that they emit less than 100 tons of NO_x annually and no more than 25 tons of SO_2 annually.

4. <u>Prohibitions</u>.

a. No owner or operator of a CO_2 budget unit shall use any alternate monitoring system, alternate reference method, or any other alternate for the required continuous emissions monitoring system without having obtained prior written approval in accordance with 310 CMR 7.70(8)(f).

b. No owner or operator of a CO_2 budget unit shall operate the unit so as to discharge, or allow to be discharged, CO_2 emissions to the atmosphere without accounting for all such emissions in accordance with the applicable provisions of 310 CMR 7.70(8) and 40 CFR Part 75.

c. No owner or operator of a CO_2 budget unit shall disrupt the continuous emissions monitoring system, any portion thereof, or any other approved emissions monitoring method, and thereby avoid monitoring and recording CO_2 mass emissions discharged into the atmosphere, except for periods of recertification or periods when calibration, quality assurance testing, or maintenance is performed in accordance with the applicable provisions of 310 CMR 7.70(8) and 40 CFR Part 75. d. No owner or operator of a CO_2 budget unit shall retire or permanently discontinue use of the continuous emissions monitoring system, any component thereof, or any other approved emissions monitoring system under 310 CMR 7.70(8), except under any one of the following circumstances:

i. The owner or operator is monitoring emissions from the unit with another certified monitoring system approved, in accordance with the applicable provisions of 310 CMR 7.70(8) and 40 CFR Part 75, by the Department for use at that unit that provides emissions data for the same pollutant or parameter as the retired or discontinued monitoring system; or,

ii. The CO_2 authorized account representative submits notification of the date of certification testing of a replacement monitoring system in accordance with 310 CMR 7.70(8)(b)4.c.i.

(b) Initial Certification and Recertification Procedures.

1. The owner or operator of a CO_2 budget unit shall be exempt from the initial certification requirements of 310 CMR 7.70(8)(b) for a monitoring system under 310 CMR 7.70(8)(a)1.a. if the following conditions are met:

a. The monitoring system has been previously certified in accordance with 40 CFR Part 75; and,

b. The applicable quality assurance and quality-control requirements of 40 CFR 75.21 and Appendix B and Appendix D of 40 CFR Part 75 are fully met for the certified monitoring system described in 310 CMR 7.70(8)(b)1.a.

2. The recertification provisions of 310 CMR 7.70(8)(b) shall apply to a monitoring system under 310 CMR 7.70(8)(a)1.a. exempt from initial certification requirements under 310 CMR 7.70(8)(b)1.

3. Notwithstanding 310 CMR 7.70(8)(b)1., if the Administrator has previously approved a petition under 40 CFR 75.72(b)(2)(ii), or 40 CFR 75.16(b)(2)(ii)(B) as pursuant to 40 CFR 75.13 for apportioning the CO₂ emissions rate measured in a common stack or a petition under 40 CFR 75.66 for an alternate requirement in 40 CFR Part 75, the CO₂ authorized account representative shall submit the petition to the Department under 310 CMR 7.70(8)(f)1. to determine whether the approval applies under this program.

4. Except as provided in 310 CMR 7.70(8)(b)1., the owner or operator of a CO_2 budget unit shall comply with the following initial certification and recertification procedures for a continuous emissions monitoring system and an excepted monitoring system under Appendix D of 40 CFR Part 75 and under 310 CMR 7.70(8)(a)1.a. The owner or operator of a unit that qualifies to use the low mass emissions excepted monitoring methodology in 40 CFR 75.19 or that qualifies to use an alternate monitoring system under Subpart E of 40 CFR Part 75 shall comply with the procedures in 310 CMR 7.70(8)(b)5. or 6., respectively.

a. <u>Requirements for Initial Certification</u>. The owner or operator shall ensure that each continuous emissions monitoring system required under 310 CMR 7.70(8)(a)1.a. (which includes the automated data acquisition and handling system) successfully completes all of the initial certification testing required under 40 CFR 75.20 by the applicable deadlines specified in 310 CMR 7.70(8)(a)2. In addition, whenever the owner or operator installs a monitoring system in order to meet the requirements of 310 CMR 7.70(8) in a location where no such monitoring system was previously installed, initial certification in accordance with 40 CFR 75.20 is required.

b. Requirements for Recertification.

(i) Whenever the owner or operator makes a replacement, modification, or change in a certified continuous emissions monitoring system under 310 CMR 7.70(8)(a)1.a. that the Administrator or the Department determines significantly affects the ability of the system to accurately measure or record CO_2 mass emissions or to meet the quality-assurance and quality-control requirements of 40 CFR 75.21 or Appendix B to 40 CFR Part 75, the owner or operator shall recertify the monitoring system according to 40 CFR 75.20(b).

(ii) For systems using stack measurements such as stack flow, stack moisture content, or CO_2 or O_2 monitors, whenever the owner or operator makes a replacement, modification, or change to the flue gas handling system or the unit's operation that the Administrator or the Department determines to significantly change the flow or concentration profile, the owner or operator shall recertify the continuous emissions monitoring system according to 40 CFR 75.20(b). Examples of changes which require recertification include: replacement of the analyzer, change in location or orientation of the sampling probe or site, or changing of flow rate monitor polynomial coefficients.

c. <u>Approval Process for Initial Certifications and Recertification</u>. 310 CMR 7.70(8)(b)4.c.i through iv. apply to both initial certification and recertification of a monitoring system under 310 CMR 7.70(8)(a)1.a. For recertifications, replace the words "certification" and "initial certification" with the word "recertification," replace the word "certified" with "recertified," and proceed in the manner prescribed in 40 CFR 75.20(b)(5) and (g)(7) in *lieu* of 310 CMR 7.70(8)(b)4.c.v.

i. <u>Notification of Certification</u>. The CO_2 authorized account representative shall submit to the Department or its agent, the appropriate EPA Regional Office, and the Administrator a written notice of the dates of certification in accordance with 310 CMR 7.70(8)(d).

ii. <u>Certification Application</u>. The CO_2 authorized account representative shall submit to the Department or its agent a certification application for each monitoring system. A complete certification application shall include the information specified in 40 CFR 75.63.

iii. <u>Provisional Certification Data</u>. The provisional certification date for a monitor shall be determined in accordance with 40 CFR 75.20(a)(3). A provisionally certified monitor may be used under the CO_2 Budget Trading Program for a period not to exceed 120 days after receipt by the Department of the complete certification application for the monitoring system or component thereof under 310 CMR 7.70(8)(b)4.c.ii. Data measured and recorded by the provisionally certified monitoring system or component thereof, in accordance with the requirements of 40 CFR Part 75, shall be considered valid quality-assured data (retroactive to the date and time of provisional certification), provided that the Department does not invalidate the provisional certification by issuing a notice of disapproval within 120 days of receipt of the complete certification by the Department.

iv. <u>Certification Application Approval Process</u>. The Department shall issue a written notice of approval or disapproval of the certification application to the owner or operator within 120 days of receipt of the complete certification application under 310 CMR 7.70(8)(b)4.c.ii. In the event the Department does not issue such a notice within such 120-day period, each monitoring system that meets the applicable performance requirements of 40 CFR Part 75 and is included in the certification application shall be deemed certified for use under the CO₂ Budget Trading Program.

(i) <u>Approval Notice</u>. If the certification application is complete and shows that each monitoring system meets the applicable performance requirements of 40 CFR Part 75, then the Department shall issue a written notice of approval of the certification application within 120 days of receipt.

(ii) Incomplete Application Notice. If the certification application is not complete, then the Department shall issue a written notice of incompleteness that sets a reasonable date by which the CO_2 authorized account representative must submit the additional information required to complete the certification application. If the CO_2 authorized account representative does not comply with the notice of incompleteness by the specified date, then the Department may issue a notice of disapproval under 310 CMR 7.70(8)(b)4.c.iv.(iii). The 120-day review period shall not begin before receipt of a complete certification application.

(iii) <u>Disapproval Notice</u>. If the certification application shows that any monitoring system or component thereof does not meet the performance requirements of 40 CFR Part 75, or if the certification application is incomplete and the requirement for disapproval under 310 CMR 7.70(8)(b)4.c.iv.(ii) is met, then the Department shall issue a written notice of disapproval of the certification application. Upon issuance of such notice of disapproval, the provisional certification is invalidated by the Department and the data measured and recorded by each uncertified monitoring system or component thereof shall not be considered valid quality assured data beginning with the date and hour of provisional certification. The owner or operator shall follow the procedures for loss of certification in 310 CMR 7.70(8)(b)4.c.v. for each monitoring system, or component thereof, which is disapproved for initial certification.

(iv) <u>Audit Decertification</u>. The Department may issue a notice of disapproval of the certification status of a monitor in accordance with 310 CMR 7.70(8)(c)2.

v. <u>Procedures for Loss of Certification</u>. If the Department issues a notice of disapproval of a certification application under 310 CMR 7.70(8)(b)4.c.iv.(iii) or a notice of disapproval of certification status under 310 CMR 7.70(8)(b)4.c.iv.(iv), then:

(i) The owner or operator shall substitute the following values for each disapproved monitoring system, for each hour of unit operation during the period of invalid data beginning with the date and hour of provisional certification and continuing until the time, date, and hour specified under 40 CFR 75.20(a)(5)(i) or 40 CFR 75.20(g)(7):

-1. For units monitoring, or intending to monitor, for CO_2 mass emissions using heat input or for units using the low mass emissions excepted methodology under 40 CFR 75.19, the maximum potential hourly heat input of the unit; or

-2. For units monitoring, or intending to monitor, for CO_2 mass emissions using a CO_2 pollutant concentration monitor and a flow monitor, the maximum potential concentration of CO_2 and the maximum potential flow rate of the unit under section 2.1 of Appendix A of 40 CFR Part 75.

(ii) The CO_2 authorized account representative shall submit a notification of certification retest dates and a new certification application in accordance with 310 CMR 7.70(8)(b)4.c.i. and ii.; and

(iii) The owner or operator shall repeat all certification tests or other requirements that were failed by the monitoring system, as indicated in the Department's notice of disapproval, no later than 30 unit operating days after the date of issuance of the notice of disapproval.

5. Initial Certification and Recertification Procedures for Low Mass Emissions Units Using the Excepted Methodologies under 310 CMR 7.70(8)(a)3.c. The owner or operator of a unit qualified to use the low mass emissions excepted methodology under 310 CMR 7.70(8)(a)3.c. shall meet the applicable certification and recertification requirements of 40 CFR 75.19(a)(2), 40 CFR 75.20(h) and 310 CMR 7.70(8)(b). If the owner or operator of such a unit elects to certify a fuel flow meter system for heat input determinations, the owner or operator shall also meet the certification and recertification requirements in 40 CFR 75.20(g).

6. <u>Certification/Recertification Procedures for Alternate Monitoring Systems</u>. The CO_2 authorized account representative for each unit for which the owner or operator intends to use an alternate monitoring system approved by the Administrator and, if applicable, the Department under Subpart E of 40 CFR Part 75 shall comply with the applicable notification and application procedures of 40 CFR 75.20(f).

(c) <u>Out-of-control Periods</u>.

1. Whenever any monitoring system fails to meet the quality assurance and quality control requirements or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable procedures in Subpart D or Appendix D of 40 CFR Part 75.

2. <u>Audit Decertification</u>. Whenever both an audit of a monitoring system and a review of the initial certification or recertification application reveal that any monitoring system should not have been certified or recertified because it did not meet a particular performance specification or other requirement under 310 CMR 7.70(8)(b) or the applicable provisions of 40 CFR Part 75, both at the time of the initial certification or recertification application submission and at the time of the audit, the Department or Administrator shall issue a notice of disapproval of the certification status of such monitoring system. For the purposes of this 310 CMR 7.70(8)(c)2., an audit shall be either a field audit or an audit of any information submitted to the Department or the Administrator. By issuing the notice of disapproval, the Department or Administrator revokes prospectively the certification status of the monitoring system. The data measured and recorded by the monitoring system shall not be considered valid quality assured data from the date of issuance of the notification of the revoked certification status until the date and time that the owner or operator completes subsequently approved initial certification or recertification tests for the monitoring system. The owner or operator shall follow the initial certification or recertification procedures in 310 CMR 7.70(8)(b) for each disapproved monitoring system.

(d) <u>Notifications</u>. The CO_2 authorized account representative for a CO_2 budget unit shall submit written notice to the Department and the Administrator in accordance with 40 CFR 75.61.

(e) <u>Recordkeeping and Reporting</u>.

1. <u>General Provisions</u>. The CO_2 authorized account representative shall comply with all recordkeeping and reporting requirements in 310 CMR 7.70(8)(e), the applicable record keeping and reporting requirements under 40 CFR 75.73 and with the requirements of 310 CMR 7.70(2)(a)5.

2. <u>Monitoring Plans</u>. The owner or operator of a CO_2 budget unit required to submit a monitoring plan shall submit such monitoring plan in the manner prescribed in 40 CFR 75.62.

3. <u>Certification Applications</u>. The CO_2 authorized account representative shall submit an application to the Department within 45 days after completing all CO_2 monitoring system initial certification or recertification tests required under 310 CMR 7.70(8)(b) including the information required under 40 CFR 75.63 and 40 CFR 75.53(e) and (f). 4. <u>Quarterly Reports</u>. The CO_2 authorized account representative shall submit quarterly reports, as follows:

a. The CO_2 authorized account representative shall report the CO_2 mass emissions data for the CO_2 budget unit, in an electronic format prescribed by the Administrator, unless otherwise prescribed by the Department, for each calendar quarter beginning with:

i. For a unit that commences commercial operation before July 1, 2008, the calendar quarter covering January 1, 2009 through March 31, 2009; or

ii. For a unit commencing commercial operation on or after July 1, 2008, the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under 310 CMR 7.70(8)(a)2.

b. The CO_2 authorized account representative shall submit each quarterly report to the Department's agent within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in Subpart H of 40 CFR Part 75 and 40 CFR 75.64. Quarterly reports shall be submitted for each CO_2 budget unit (or group of units using a common stack), and shall include all of the data and information required in Subpart G of 40 CFR Part 75, except for opacity, NO_x and SO_2 provisions.

c. <u>Compliance Certification</u>. The CO_2 authorized account representative shall submit to the Department or its agent a compliance certification in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

i. The monitoring data submitted were recorded in accordance with the applicable requirements of 310 CMR 7.70(8) and 40 CFR Part 75, including the quality assurance procedures and specifications;

ii. For a unit with add-on CO_2 emissions controls and for all hours where data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emissions controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B of 40 CFR Part 75 and the substitute values do not systematically underestimate CO_2 emissions; and

iii. The CO_2 concentration values substituted for missing data under Subpart D of 40 CFR Part 75 do not systematically underestimate CO_2 emissions.

(f) <u>Petitions</u>.

1. Except as provided in 310 CMR 7.70(8)(f)3., the CO_2 authorized account representative of a CO_2 budget unit that is subject to an Acid Rain emissions limitation may submit a petition to the Administrator under 40 CFR 75.66 and to the Department requesting approval to apply an alternate to any requirement of 310 CMR 7.70(8). Application of an alternate to any requirement of 40 CFR Part 75 is in accordance with 310 CMR 7.70(8) only to the extent that the petition is approved in writing by the Administrator, and subsequently approved in writing by the Department.

2. Petitions for a CO_2 budget unit that is not subject to an Acid Rain emissions limitation.

a. The CO₂ authorized account representative of a CO₂ budget unit that is not subject to an Acid Rain emissions limitation may submit a petition to the Administrator under 40 CFR 75.66 and to the Department requesting approval to apply an alternate to any requirement of 40 CFR Part 75. Application of an alternate to any requirement of 40 CFR Part 75 is in accordance with 310 CMR 7.70(8) only to the extent that the petition is approved in writing by the Administrator, and subsequently approved in writing by the Department.

b. In the event that the Administrator declines to review a petition under 310 CMR 7.70(8)(f)2.a., the CO₂ authorized account representative of a CO₂ budget unit that is not subject to an Acid Rain emissions limitation may submit a petition to the Department requesting approval to apply an alternate to any requirement of 310 CMR 7.70(8). That petition shall contain all of the relevant information specified in 40 CFR 75.66. Application of an alternate to any requirement of 310 CMR 7.70(8) is in accordance with 310 CMR 7.70(8) only to the extent that the petition is approved in writing by the Department.

3. The CO₂ authorized account representative of a CO₂ budget unit that is subject to an Acid Rain emissions limitation may submit a petition to the Administrator under 40 CFR 75.66 and to the Department requesting approval to apply an alternate to a requirement concerning any additional CEMS required under the common stack provisions of 40 CFR 75.72 or a CO₂ concentration CEMS used under 40 CFR 75.71(a)(2). Application of an alternate to any such requirement is in accordance with 310 CMR 7.70(8) only to the extent the petition is approved in writing by the Administrator, and subsequently approved in writing by the Department.

(g) <u>CO₂ Budget Units That Co-fire Eligible Biomass</u>.

1. The CO_2 authorized account representative of a CO_2 budget unit that co-fires eligible biomass as a compliance mechanism under 310 CMR 7.70 shall report the following information to the Department or its agent for each calendar quarter:

a. For each shipment of solid eligible biomass fuel fired at the CO_2 budget unit, the total eligible biomass fuel input, on an as-fired basis, in pounds.

b. For each shipment of solid eligible biomass fuel fired at the CO_2 budget unit, the moisture content, on an as-fired basis, as a fraction by weight.

c. For each distinct type of gaseous eligible biomass fuel fired at the CO_2 budget unit, the density of the biogas, on an as-fired basis, in pounds per standard cubic foot. d. For each distinct type of gaseous eligible biomass fuel fired at the CO_2 budget unit, the moisture content of the biogas, as a fraction by total weight.

e. For each distinct type of gaseous eligible biomass fuel fired at the CO_2 budget unit, the total eligible biomass fuel input, in standard cubic feet.

f. For each distinct type of eligible biomass fuel fired at the CO_2 budget unit, the dry basis carbon content of the fuel type, as a fraction by dry weight.

g. For each distinct type of eligible biomass fuel fired at the CO_2 budget unit, the dry basis higher heating value, in MMBtu per dry pound.

h. For each distinct type of eligible biomass fuel fired at the CO_2 budget unit, the total dry basis eligible biomass fuel input, in pounds, calculated in accordance with 310 CMR 7.70(8)(g)2.

i. The total amount of CO_2 emitted from the CO_2 budget unit due to firing eligible biomass fuel, in tons, calculated in accordance with 310 CMR 7.70(8)(g)3.

j. For each distinct type of eligible biomass fuel fired at the CO_2 budget unit, the total eligible biomass fuel heat input, in MMBtu, calculated in accordance with 310 CMR 7.71(8)(g)4.a.

k. The total amount of heat input to the CO_2 budget unit due to firing eligible biomass fuel, in MMBtu, calculated in accordance with 310 CMR 7.71(8)(g)4.b.

1. Description and documentation of monitoring technology employed, and description and documentation of fuel sampling methodology employed, including sampling frequency; and

m. For each distinct type of eligible biomass fuel fired at the CO_2 budget unit, chemical analysis, including heating value and carbon content.

2. An owner or operator of a CO_2 budget unit shall calculate and submit to the Department or its agent on a quarterly basis the total dry weight for each distinct type of eligible biomass fired by the CO_2 budget unit during the reporting quarter. The total dry weight shall be determined for each fuel type as follows:

a. For Solid Fuel Types:

$$F_{j} = \sum_{i=1}^{m} (1 - M_{i}) \times F_{i}$$
where:
$$F_{j} =$$

$$F_{i} =$$

Total eligible biomass dry basis fuel input (lbs) for fuel type j; Eligible biomass as-fired fuel input (lbs) for fired shipment i;

 M_i = Moisture content (fraction) for fired shipment i;

- I = fired fuel shipment;
- j =fuel type; and
- m = number of shipments.
- b. For Gaseous Fuel Types:

 $F_j = Dj \times Vj \times (1 - Mj)$ where:

- F_i = Total eligible biomass dry basis fuel input (lbs) for fuel type j;
- \vec{D}_{i} = Density of biogas (lbs/scf) for fuel type j;
- V_i = Total volume (scf) for fuel type j;
- M_i = Moisture content (fraction) for fuel type j,
- j =fuel type.
- 3. CO_2 emissions due to firing of eligible biomass shall be determined as follows: a. For any full calendar quarter during which no fuel other than eligible biomass is combusted at the CO_2 budget unit, as measured and recorded in accordance with 310 CMR 7.70(8)(a) through (f); or

b. For any full calendar quarter during which fuels other than eligible biomass are combusted at the CO_2 budget unit, as determined using the following equation:

$$CO_{2} \text{ tons} = \sum_{j=1}^{n} F_{j} \ge C_{j} \ge O_{j} \ge 44/12 \ge 0.0005$$

where:

CO_2 tons =	CO_2 emissions due to firing of eligible biomass for the reporting quarter;
$F_i = 7$	Total eligible biomass dry basis fuel input (lbs) for fuel type j, as calculated
i	n 310 CMR 7.70(8)(g)2.;
$C_i =$	Carbon fraction (dry basis) for fuel type j;
$C_j = O_j =$	Oxidation factor for eligible biomass fuel type j, derived for solid fuels based on the ash content of the eligible biomass fired and the carbon content of this ash, as determined pursuant to 310 CMR 7.70(8)(g)1.1. for gaseous eligible biomass fuels, a default oxidation factor of 0.995 may be used;
44/12 =	The number of tons of carbon dioxide that are created when one ton of carbon is combusted (44/12);
0.0005 =	The number of short tons which is equal to one pound;
j =	fuel type; and
n =	number of distinct fuel types.

4. Heat input due to firing of eligible biomass for each quarter shall be determined as follows:

a. For Each Distinct Fuel Type:

 $H_i = F_i x HHV_i$

 H_i = Heat input (MMBtu) for fuel type j;

 F_j = Total eligible biomass dry basis fuel input (lbs) for fuel type j, as calculated in 310 CMR 7.71(8)(g)2.;

 HHV_j = Higher heating value (MMBtu/lb), dry basis, for fuel type j, as determined through chemical analysis;

j = fuel type.

Heat Input MMBtu =
$$\sum_{j=1}^{n} H_{j}$$

where:

where:

- H_i = Heat input (MMBtu) for fuel type j;
- j = fuel type; and,
- n = number of distinct fuel types.

5. Fuel sampling methods and fuel sampling technology shall be consistent with the *New York State Renewable Portfolio Standard Biomass Guidebook*, May 2006.

(h) Additional Requirements to Provide Output Data.

1. CO_2 budget source shall submit to the Department or its agent net electrical output. 2. CO_2 budget sources selling steam should use billing meters to determine net steam output. A CO_2 budget source whose steam output is not measured by billing meters or whose steam output is combined with output from a non- CO_2 budget unit prior to measurement by the billing meter shall propose to the Department an alternate method for quantification of net steam output. If data for steam output is not available, the CO_2 budget source may report heat input providing useful steam output as a surrogate for steam output.

3. <u>Monitoring</u>. The owner or operator of each CO_2 budget unit required to submit an output monitoring plan pursuant to 310 CMR 7.70(3)(c) shall propose a method for quantification of net energy output in such output monitoring plan, including:

a. A diagram that includes the following features where applicable:

i. All CO₂ budget units and all generators served by each CO₂ budget unit and the relationship between CO₂ budget units and generators. If a generator served by a CO₂ budget unit is also served by a non-CO₂ budget unit, the non-CO₂ budget unit and its relationship to each generator should be indicated on the diagram as well. The diagram should indicate where the net electric output is measured and should include all electrical inputs and outputs to and from the CO₂ budget source. If net electric output is determined using a billing meter, the diagram should show each billing meter used to determine net sales of electricity and should show that all electricity measured at the point of sale is generated by the CO₂ budget units.

ii. If the CO_2 budget unit monitors net thermal output, the diagram should include all steam or hot water coming into the net steam system, including steam from CO_2 budget units and non- CO_2 budget units, and all exit points of steam or hot water from the net steam system. In addition, each input and output stream shall have an estimated temperature, pressure and phase indicator, and an enthalpy in Btu/lb. The diagram of the net steam system should identify all useful loads, house loads, parasitic loads, any other steam loads and all boiler feedwater returns. The diagram shall represent all energy losses in the system as either usable or unusable losses. The diagram shall also indicate all flow meters, temperature or pressure sensors or other equipment used to calculate gross thermal output. If a sales agreement is used to determine net thermal output, the diagram should show the monitoring equipment used to determine the sales of steam.

b. A description of each output monitoring system. The description of the output monitoring system shall include a written description of the output system and the equations used to calculate output. For net thermal output systems, descriptions and justifications of each useful load shall be included.

c. A detailed description of all quality assurance/quality control activities that will be performed to maintain the output system in accordance with 310 CMR 7.70(8)(h)5.

d. Documentation supporting any output value(s) to be used as a missing data value should there be periods of invalid output data. The missing data output value shall be either zero or an output value that is likely to be lower than a measured value and that is approved as part of the monitoring plan required under 310 CMR 7.70(8)(h)3.

4. <u>Initial Certification</u>. A certification statement shall be submitted by the CO_2 authorized account representative stating that either the output monitoring system consists entirely of billing meters or that the output monitoring system meets one of the accuracy requirements for non-billing meters at 310 CMR 7.70(8)(h)4.b. The certification shall be submitted in accordance with the compliance deadlines established in 310 CMR 7.70(3)(b).

a. <u>Billing Meters</u>. The billing meter shall record the electric or thermal output. Any electric or thermal output values that the facility reports shall be the same as the values used in billing for the output. Any output measurement equipment used as a billing meter in commercial transactions requires no additional certification or testing.

b. <u>Non-billing Meters</u>. For non-billing meters and systems that include a mixture of billing meters and non-billing meters, the output monitoring system shall meet either of the accuracy criteria in 310 CMR 7.70(8)(h)4i. and ii.

i. <u>System Approach to Accuracy</u>. The system approach to accuracy shall include a determination of how the system accuracy of within less than or equal to 10% of the reference value is achieved using the individual components in the system and should include data loggers and any wattmeters used to calculate the final net electric output data and/or any flowmeters for steam or condensate, temperature measurement devices, absolute pressure measurement devices, and differential pressure devices used for measuring thermal energy.

ii. <u>Component Approach to Accuracy</u>. If testing a piece of output measurement equipment shows that the output readings are not accurate to within less than or equal to 3.0% of the full scale value, then the equipment shall be repaired or replaced to meet that requirement. Data shall remain invalid until the output measurement equipment passes an accuracy test or is replaced with another piece of equipment that passes the accuracy test.

5. <u>Ongoing QA/QC</u>. The following ongoing quality assurance/quality control activities must be performed in order to maintain the output system:

a. <u>Billing Meters</u>. In the case where billing meters are used to determine output, no QA/QC activities beyond what are already performed are required.

b. <u>Non-billing Meters</u>. Certain types of equipment such as potential transformers, current transformers, nozzle and venturi type meters, and the primary element of an orifice plate only require an initial certification of calibration and do not require periodic recalibration unless the equipment is physically changed. However, the pressure and temperature transmitters accompanying an orifice plate shall require periodic retesting. For such pressure and temperature transmitters, and other types of equipment, either recalibrate or reverify the meter accuracy at least once every two years (*i.e.*, every eight calendar quarters), unless a consensus standard allows for less frequent calibrations or accuracy tests. The output monitoring system shall either meet an accuracy of within 10% of the reference value, or each component monitor for the output system shall meet an accuracy of within 3.0% of the full scale value, whichever is less stringent. If testing a piece of output measurement equipment shows that the output readings are not accurate to within 3.0% of the full scale value, then the equipment should be repaired or replaced to meet that requirement.

c. <u>Out-of-control Periods</u>. If testing a piece of output measurement equipment shows that the output readings are not accurate to the certification value, data remain invalid until the output measurement equipment passes an accuracy test or is replaced with another piece of equipment that passes the accuracy test. All invalid data shall be replaced by either zero or an output value that is likely to be lower than a measured value and that is approved as part of the monitoring plan required under 310 CMR 7.70(8)(h)3.

6. Recordkeeping and Reporting.

a. <u>General Provisions</u>. The CO₂ authorized account representative shall comply with all recordkeeping and reporting requirements in 310 CMR 7.70(8)(h) and with the requirements of 310 CMR 7.70(1)(e)5. and (2)(a)5.

b. <u>Recordkeeping</u>. Facilities shall retain data used to monitor, determine, or calculate net generation for ten years from the date reported.

c. Annual Reports. The CO₂ authorized account representative shall submit annual output reports in a spreadsheet, as follows. The data shall be sent both electronically and in hardcopy by March 1st for the immediately preceding calendar year to the Department or its agent. The annual report shall include the annual total unit level MWh, the annual total useful steam output and a certification statement from the CO₂ authorized account representative stating the following, "I am authorized to make this submission on behalf of the owners and operators of the CO_2 budget sources or CO₂ budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

(i) <u>CO₂ Budget Units That Generate Useful Net Thermal Energy</u>.

1. The CO_2 authorized account representative of a combined heat and power CO_2 budget source that generates useful net thermal energy shall report the following information for the combined heat and power CO_2 budget source to the Department or its agent for each calendar quarter:

(PAGES 250.102.53 THROUGH 250.102.74 ARE <u>RESERVED</u> FOR FUTURE USE.)

a. The total amount of useful net thermal energy output produced by CO_2 budget units expressed in MMBtu, the total volume of steam output produced by CO_2 budget units expressed in cubic feet, the average pressure of the steam output produced by CO_2 budget units expressed in pounds per square inch, and the average temperature of the steam expressed in degrees Fahrenheit. The amount of useful net thermal energy output shall be determined in a manner as approved by the Department in the CO_2 Budget Emission Control Plan consistent with the requirements of 310 CMR 7.70(3) and (8)(h).

b. The total amount of CO_2 emissions from CO_2 budget units attributable to the production of useful net thermal energy, in tons, calculated in accordance with 310 CMR 7.70(8)(i)2.

2. The quantity of CO_2 emissions attributable to the production of useful net thermal energy shall be determined by the following equation (rounded to the nearest whole ton):

UNTE/.80 x 122 lb/MMBtu

2000 lb/ton

Where:

UNTE = useful net thermal energy (in MMBtu output) generated by CO_2 budget units at the combined heat and power CO_2 budget source during each calendar quarter.

7.71: Reporting of Greenhouse Gas Emissions

(1) <u>Purpose</u>. The purpose of 310 CMR 7.71 is to implement the reporting and verification requirement for statewide greenhouse gas emissions and to monitor and ensure compliance with the reporting provisions of M.G.L. c. 21N, the Climate Protection and Green Economy Act, St. 2008, c. 298, § 6.

(2) <u>Definitions</u>. The definitions in 310 CMR 7.00: *Definitions* apply to 310 CMR 7.71. The following additional terms have the following meanings when they appear in 310 CMR 7.71. Where a term defined in 310 CMR 7.00: *Definitions* also appears in 310 CMR 7.71, the definition in 310 CMR 7.71 is applicable for the purpose of 310 CMR 7.71.

<u>Carbon Dioxide Equivalent</u>. The amount of carbon dioxide by weight that would produce the same amount of global warming impact as a given weight of another greenhouse gas, based on the best available science, including information from the Intergovernmental Panel on Climate Change. The global warming potentials included in 40 CFR Part 98 shall be used to quantify and report greenhouse gas emissions in carbon dioxide equivalents pursuant to 310 CMR 7.71.

<u>Entity</u>. A person that owns or operates, in whole or in part, a source of greenhouse gas emissions from a generator of electricity or a commercial or industrial site including, but not limited to, a transportation fleet.

<u>Facility</u>. A building, structure or installation located on contiguous or adjacent properties of an entity, or a natural gas facility.

<u>Greenhouse Gas</u>. Any chemical or physical substance that is emitted into the air and that the Department may reasonably anticipate will cause or contribute to climate change including, but not limited to, carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and any other gas for which 40 CFR Part 98 includes a method for calculating greenhouse gas emissions from any stationary emissions source.

<u>Method</u>. A way of calculating greenhouse gas emissions provided in 40 CFR Part 98 and any related monitoring, reporting, and recordkeeping requirements included in 40 CFR Part 98, but does not mean a reporting threshold, specific source category exemption, or any other type of requirement.

<u>Natural Gas Facility</u>. A collection of interconnected natural gas containing equipment (*e.g.*, transmission and distribution pipelines, service lines, customer meters, compressors, tanks, metering stations, regulating stations, and any other interconnected equipment that contains natural gas) that is owned or operated by an entity.

Short Ton. 2000 pounds or 0.9072 metric tons.

<u>Stationary Emission Source</u>. Any individual stationary piece of equipment or other stationary point from which any greenhouse gas is emitted to the ambient air. For the purpose of reporting greenhouse gas emissions pursuant to 310 CMR 7.71, a source of greenhouse gas emissions located within the facility is a stationary emission source if 40 CFR Part 98 includes a method for calculating greenhouse gas emissions that can be used to quantify emissions from the source.

(3) Applicability.

(a) Any entity owning, operating, or controlling a facility is subject to the requirements of 310 CMR 7.71(4) and (5) if:

1. said facility is required to report air emissions data to the Department pursuant to 310 CMR 7.00: *Appendix C* (The Air Operating Permit Program) and had stationary emission sources that emitted greenhouse gases during the previous calendar year;

2. said facility has one or more stationary emission sources that collectively emitted greenhouse gases in excess of 5,000 short tons of greenhouse gases in carbon dioxide equivalents during the previous calendar year. In determining whether a facility has one or more stationary emission sources that collectively emit greenhouse gases in excess of 5,000 short tons, all greenhouse gas emissions from all stationary emission sources at the facility shall be included; or

3. said facility was subject to the requirements of 310 CMR 7.71 (3)(a)1. or 2. in any past year.

(b) <u>Exemption for Facilities with Low or Reduced Emissions</u>.

1. Notwithstanding 310 CMR 7.71(3)(a)3., any entity may petition the Department to be exempted from the requirement to report greenhouse gas emissions from a facility provided the following requirements are met. Said petition shall be submitted using a form provided by the Department.

a. The entity is not required to report greenhouse gas emissions from the facility pursuant to 310 CMR 7.71(3)(a)1. or 2.;

b. The entity is unlikely to be required to report greenhouse gas emissions from the facility pursuant to 310 CMR 7.71(3)(a)1. or 2. for any future year; and,

c. At least one greenhouse gas emission report documenting greenhouse gas emissions from said facility of less than or equal to 5,000 short tons of greenhouse gases in carbon dioxide equivalents has been submitted pursuant to 310 CMR 7.71(4) and (5).

2. The Department may approve a petition submitted pursuant to 310 CMR 7.71 (3)(b) only if the Department determines that all of the requirements set forth in 310 CMR 7.71(3)(b)1. have been met. In determining whether to approve or deny a petition pursuant to 310 CMR 7.71(3)(b), the Department may consider any information contained in said petition, and any other relevant information.

3. If the Department has approved a petition in accordance with 310 CMR 7.71(3)(b)2., the annual reporting requirement in 310 CMR 7.71(3)(a)3. shall not apply to said facility until such time as the reporting of greenhouse gas emissions from said facility is again required pursuant to 310 CMR 7.71(3)(a)1. or 2.

(4) <u>Annual Reporting by Facilities that Emit Greenhouse Gases</u>.

(a) Any entity owning, operating or controlling a facility that is required to report greenhouse gas emissions to the Department pursuant to 310 CMR 7.71, and is not subject to Source Registration at 310 CMR 7.12, shall annually report, certify, and verify greenhouse gas emissions from stationary emission sources for the previous calendar year in accordance with 310 CMR 7.71(4) and (5) by April 15, 2010, and April 15th of each year thereafter.

(b) Any entity owning, operating or controlling a facility that is required to report greenhouse gas emissions to the Department pursuant to 310 CMR 7.71 and is subject to Source Registration at 310 CMR 7.12 shall annually report, certify and verify greenhouse gas emissions from stationary emission sources for the previous calendar year in accordance with 310 CMR 7.71(4) and (5) and the following schedule:

1. By April 1st, if the facility is required to submit Source Registration every three years in accordance with 310 CMR 7.12(2)(b).

2. By May 1st for a facility subject to 310 CMR 7.00: Appendix C.

3. By June 1st for a facility that:

a. Has an RES permit issued by the Department pursuant to 310 CMR 7.02(9);

b. Had actual emissions of lead equal to or greater than 0.5 tons in the previous calendar year, or actual emissions of NOx or VOC equal to or greater than 25 tons per year in the previous calendar year;

c. Emits an air contaminant subject to a NESHAP or is subject to a MACT standard defined at 40 CFR Part 61 and Part 63, for which the Department has received delegation from EPA; and/or

d. Is required, as a condition of a plan approval issued by the Department since January 1, 1990 to submit a Source Registration annually in accordance with 310 CMR 7.12.

(c) Greenhouse gas emissions from stationary emission sources shall be reported in accordance with methods specified in 40 CFR Part 98.

(d) Greenhouse gas emissions shall be reported electronically to the Department in a format specified by the Department.

(e) If required by the Department, the reporting entity shall report emissions in metric tons. One metric ton equals 1.102 short tons.

(f) Once a facility files a report pursuant to 310 CMR 7.71(4) on or after January 1, 2011, it is considered to be a registered reporter unless the Department approves a petition pursuant to 310 CMR 7.71(3)(b)2.

(5) <u>Requirements for Certification and Recordkeeping</u>.

(a) Entities subject to the requirement to report greenhouse gas emissions in accordance with 310 CMR 7.71(4) shall certify and verify the truth, accuracy, and completeness of their greenhouse gas emissions reports using a format specified by the Department. The information shall include, but not be limited to, the following:

1. Any information deemed necessary by the Department to identify the reporting facility.

2. The following certification statement: "I certify that I have personally examined the greenhouse gas emissions report for this facility and am familiar with the information contained in that report and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment."

3. The authorized signature and contact information of a responsible official of the entity subject to the requirement to report greenhouse gas emissions in accordance with 310 CMR 7.71(4).

(b) Copies of documents and other information supplied to the Department to comply with

310 CMR 7.71(4) shall be retained at the facility for five years from the date of submittal.(c) All supporting documentation and calculations related to quantifying and reporting greenhouse gas emissions from the facility shall be retained at the facility for five years from the date of submittal and made available to the Department upon request.

(6) <u>Voluntary Reporting by Facilities</u>. Any entity owning, controlling or operating a facility that is not subject to 310 CMR 7.71(4)(a) may voluntarily report greenhouse gas emissions from that facility in accordance with 310 CMR 7.71(4), provided that the facility is located in Massachusetts and that the entity complies with all requirements of 310 CMR 7.71(4) through (6).

7.72: Reducing Sulfur Hexafluoride Emissions from Gas-insulated Switchgear

(1) <u>Purpose, Scope and Authority</u>. The purpose of 310 CMR 7.72 is to assist the Commonwealth in achieving the greenhouse gas emissions reduction goals adopted pursuant to M.G.L. c. 21N, § (3)(b) by reducing sulfur hexafluoride (SF₆) emissions from gas-insulated switchgear through the imposition of declining annual aggregate emission limits and other measures on gas-insulated switchgear. 310 CMR 7.72 is promulgated pursuant to M.G.L. c. 21N, § 3(d) and is also promulgated pursuant to M.G.L. c. 21A, §§ 2, 8 and 16, and M.G.L. c. 111, §§ 2C and 142A through 142E, to prevent and abate conditions of air pollution from greenhouse gas emissions.

(2) <u>Definitions</u>. The terms used in 310 CMR 7.72 are defined in 310 CMR 7.72(2) and 7.00: *Definitions*. Where a term is defined in 310 CMR 7.00: *Definitions* and 7.72, the definition in 310 CMR 7.72 shall apply.

<u>Active GIS Equipment</u> means non-hermetically sealed SF_6 gas-insulated switchgear that is: (a) Connected through busbars or cables to the GIS owner's electrical power system; or

7.72: continued

(b) Fully-charged, ready for service, located at the site in which it will be activated, and employs a mechanism to monitor SF_6 emissions.

Active GIS Equipment does not include equipment in storage.

<u>Electrical Power System</u> means the combination of electrical generators (*e.g.*, power plants), transmission and distribution lines, equipment, circuits, and transformers used to generate and transport electricity from the generators to consumption areas or to adjacent electrical power systems.

<u>Federal Reporting GIS Owner</u> means a GIS Owner who has ever been required or who is currently required to report SF_6 emissions to US EPA pursuant to 40 CFR Part 98, Subpart DD (§ 98.300 through 308).

<u>Gas-insulated Switchgear or GIS</u> means all electrical power system equipment insulated with SF_6 gas. Gas-insulated switchgear or GIS includes switches, stand-alone gas-insulated equipment, and any combination of electrical disconnects, fuses, electrical transmission lines, transformers and/or circuit breakers used to isolate gas-insulated electrical power system equipment.

<u>GIS Owner</u> means the person who owns, leases, operates, or controls gas-insulated switchgear used in Massachusetts. GIS owner excludes temporary possession by the following persons:

- (a) the original equipment manufacturer during GIS equipment transport and installation at a customer's site; and
- (b) a qualified person who hauls the GIS for reuse, recycle or destruction.

<u>Hermetically Sealed Gas-insulated Switchgear</u> means switchgear that is designed to be gas-tight and sealed for life. This type of switchgear is pre-charged with SF_6 , sealed at the factory, and cannot be refilled by its user.

(3) <u>Applicability</u>.

(a) Any federal reporting GIS owner is subject to 310 CMR 7.72(1) through (9).

(b) Any GIS owner that is not a federal reporting GIS owner is subject to 310 CMR 7.72(1) through (4), (8), and (9), and not subject to 310 CMR 7.72(5) through (7).

(4) <u>General Requirements for All GIS Owners</u>.

(a) Any newly manufactured GIS that is placed under the ownership, lease, operation, or control of any GIS owner on or after January 1, 2015 must be represented by the manufacturer to have a 1.0% maximum annual leak rate.

(b) Any GIS owner that places GIS under ownership, lease, operation, or control on or after January 1, 2015 shall comply with any manufacturer-recommended maintenance procedures or industry best practices that have the effect of reducing leakagle of SF_6 .

(c) If any particular piece of active GIS equipment placed under the ownership, lease, operation, or control of any GIS owner on or after January 1, 2015 does not meet the 1.0% maximum annual leak rate, the GIS owner shall, by April 15th of the year following the calendar year during which the SF₆ was added, provide documentation to the Department demonstrating compliance with 310 CMR 7.72(4)(a) and (b) and describing any additional actions taken or anticipated actions that are expected to reduce the emission rate in the future.

1. GIS owners shall use data recorded pursuant to 310 CMR 7.72(8)(b) to determine whether the 1.0% maximum annual leak rate is met.

2. For the purpose of determining whether GIS meets the 1.0% maximum annual leak rate, GIS owners shall determine an annual average by dividing the amount of SF_6 added to a piece of active GIS equipment by the number of years since the previous addition of SF_6 .

3. For the purpose of determining whether GIS meets the 1.0% maximum annual leak rate, GIS owners may disregard the first time SF_6 is added after the GIS becomes active GIS equipment.

4. GIS owners may apply the requirements of 310 CMR 7.72(4)(c) to any group of commonly owned, leased, operated, or controlled pieces of active GIS equipment located in Massachusetts, instead of a single piece of active GIS equipment.

(d) Upon removal of any GIS containing SF_6 from the ownership, lease, operation, or control of a GIS owner, the GIS owner shall provide for the secure storage, re-use, recycling, or destruction of the SF_6 .

(e) GIS owners are responsible for compliance with 310 CMR 7.72(4) with respect to any GIS that is under their ownership, lease, operation, or control in Massachusetts. Documentation provided to GIS owners by qualified persons, such as manufacturers, suppliers, and maintenance contractors, is sufficient to demonstrate compliance with all provisions of 310 CMR 7.72(4).

(5) <u>Limits to Annual SF₆ Emissions</u>.

(a) <u>Rate Limit</u>. For each calendar year specified below, each federal reporting GIS owner shall ensure that the annual SF_6 emission rate for all of its active GIS equipment, as calculated pursuant to 310 CMR 7.72(6)(b)8., shall not exceed the following:

Maximum Annual SF ₆ Emission Rate	
Calendar Year	Maximum Allowable SF ₆ Emission Rate
2015	3.5%
2016	3.0%
2017	2.5%
2018	2.0%
2019	1.5%
2020, and each calendar year thereafter	1.0%

(b) Mass Limit.

1. For each calendar year specified below, each federal reporting GIS owner shall ensure that the annual SF_6 emissions from all of its active GIS equipment, as calculated pursuant to 310 CMR 7.72(6)(b)6., shall not exceed the following:

Maximum Annual SF ₆ Emissions - National Grid	
Calendar Year Maximum Allowable SF ₆ Emissions (lb	
2018	2,644
2019	2,082
2020	1,457

Maximum Annual SF ₆ Emissions - Eversource	
Calendar Year Maximum Allowable SF ₆ Emissions (
2018	3,115
2019	2,800
2020	2,460

2. The mass emissions limits listed in 310 CMR 7.72(5)(b) are designed such that aggregate annual SF₆ emissions from all active GIS equipment owned or operated by all federal reporting GIS owners subject to 310 CMR 7.72(5), as calculated pursuant to 310 CMR 7.72(6)(b)6., shall not exceed the following:

Maximum Annual SF ₆ Emissions - Aggregate	
Calendar Year Maximum Allowable SF ₆ Emissions (I	
2018	5,759
2019	4,882
2020	3,917

(6) Annual Reporting Requirements.

(a) By April 15, 2016 and each year thereafter, each federal reporting GIS owner must submit an annual report to the Department for emissions that occurred during the previous calendar year.

(b) The annual report shall be submitted electronically in a format specified by the Department, and must contain all of the following information:

1. The federal reporting GIS owner's name, physical address, and mailing address;

2. The location of records and documents;

3. The name and contact information including e-mail address and telephone number of the responsible official submitting the report, and the person primarily responsible for preparing the report;

4. The year for which the information is submitted;

5. The authorized signature of a responsible official of the federal reporting GIS owner, and the following certification statement: "I certify that I have personally examined the report for this facility and am familiar with the information contained in that report and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment."

6. The number of pounds of SF_6 emitted from GIS equipment owned, leased, operated, or controlled by the federal reporting GIS owner and located in Massachusetts during the year, as calculated using the equation specified in 40 CFR § 98.303 and procedures for estimating missing data specified in 40 CFR § 98.305, adjusted to account for any emergency events reported pursuant to 310 CMR 7.72(7);

7. The total nameplate capacity of SF_6 -containing active GIS equipment owned, leased, operated, or controlled by the federal reporting GIS owner and located in Massachusetts at the end of the year, as calculated in a manner consistent with the data reporting requirement specified in 40 CFR § 98.306(a)(1);

8. The annual SF_6 emission rate for active GIS equipment owned, leased, operated, or controlled by the federal reporting GIS owner and located in Massachusetts, as calculated by dividing the number of pounds of SF_6 emitted during the year by the nameplate capacity of SF_6 -containing active GIS equipment at the end of the year, as calculated pursuant to 310 CMR 7.72(6)(b)6. and 7.;

9. All other related information submitted to US EPA in accordance with 40 CFR § 98.306, except for any information that the Department obtains directly from US EPA; and

10. Any information required to comply with 310 CMR 7.72(7)(b).

(7) <u>Emergency Event Exemption</u>.

(a) If a federal reporting GIS owner wishes to exempt a particular release of SF_6 emissions from its annual calculation of the emissions limit (rate or mass), the federal reporting GIS owner must meet its burden of proof to demonstrate, and the Department must determine, that such release of SF_6 was:

1. Caused by a sudden, unforeseeable emergency event, including, but not limited to: fire, flood, earthquake, or act of vandalism; and could not have been prevented by the exercise of prudence, diligence, and care; and was beyond the control of the federal reporting GIS owner; or

2. Necessary to avoid an immediate electrical system outage.

(b) In order for the Department to determine that an emergency event exemption is warranted, a federal reporting GIS owner must submit the following information in its annual report:

1. A detailed, chronological, narrative description of the sudden, unforeseeable, emergency event or of the specific circumstances necessitating a release of SF_6 in order to avoid an electrical system outage. Such description shall include, but is not limited to, the following:

a. The nature of the event (*e.g.*, fire, flood, earthquake);

b. The date and time the event occurred;

c. The location of the event;

d. The equipment that was affected by the event;

e. The function of the affected equipment within the facility's system;

f. The amount of SF_6 released (in pounds);

g. The specifc event which resulted in the release of SF_6 ; and

h. The precautions taken to prevent the reported release of SF_6 .

2. Information and documentation (including, but not limited to, witness statements, photographs, analysis of damaged equipment, accident reconstruction, or other evidence) that can demonstrate by a preponderance of evidence the requirements for exemption set forth in 310 CMR 7.72(7)(a); and

3. Any other information specified in the Department's annual reporting form.

(c) If the Department determines that the federal reporting GIS owner has failed to demonstrate that the event meets the criteria provided at 310 CMR 7.72(7)(a), the Department will notify the federal reporting GIS owner, and the federal reporting GIS owner shall amend the relevant annual emission report to include SF_6 emissions resulting from the event.

(8) Monitoring, Q/A, and Recordkeeping Requirements.

(a) All federal reporting GIS owners shall comply with all requirements of 40 CFR § 98.304 and 307 with respect to equipment and containers used in Massachusetts.

(b) All GIS owners shall record, no less than annually, the amount of SF_6 added, if any, to each piece of active GIS equipment that was placed under their ownership, lease, operation, or control on or after January 1, 2015.

(c) All GIS owners shall retain for five years documentation sufficient to demonstrate compliance with 310 CMR 7.72 and shall provide such documentation to the Department on request. The documentation shall be submitted in a format and within the time limit requested by the Department.

(9) <u>Compliance Verification and Enforcement</u>.

(a) If a federal reporting GIS owner exceeds the applicable Maximum Annual SF_6 Emissions limits set forth in 310 CMR 7.72(5)(b)1.: *Table*, any such excess emissions shall be deemed a release into the environment without the authorization or approval of the Department and shall be presumed to constitute a significant impact to public health, welfare, safety, and the environment. A federal reporting GIS owner shall be deemed to be in non-compliance only if such owner exceeds the applicable individual limit provided in 310 CMR 7.72(5)(b)1.

(b) The Department shall enforce the requirements of 310 CMR 7.72 in accordance with applicable federal and Massachusetts law, including but not limited to M.G.L. c. 21A, § 16, and 310 CMR 5.00: *Administrative Penalty*; M.G.L. c. 111, § 2C; M.G.L. c. 111, §§ 142A through 142M; and M.G.L. c. 21N, § 7(d).

(c) <u>Compliance Verification</u>. The Department may verify compliance with 310 CMR 7.72 by conducting inspections, requesting information and records and requiring the collection of information not previously required; provided that this section does not limit the authority of the Department as otherwise provided by law or in an authorization, determination, modification, permit, or other approval, or by the terms of any order or other enforcement document.

1. Access to Information. Where necessary to ascertain compliance with 310 CMR 7.72, including actual or potential SF_6 emissions, the Department may request of a GIS Owner information or records. The GIS Owner shall, within ten business days of the request, furnish the requested information or records and shall permit Department personnel or authorized representatives to have access to and to take images of such records.

2. <u>Requirement to Collect Information</u>. When the Department has reason to believe that a GIS Owner has exceeded its SF_6 emissions limit or violated any other condition in 310 CMR 7.72, the Department may require a GIS Owner to submit the necessary information or records to determine compliance. In doing so, the Department may require a GIS Owner to:

a. Perform audits on SF_6 emissions records using standard procedures and methods;

b. Quantify SF_6 emissions in accordance with the procedures, and methods as the Department may prescribe;

c. Make periodic reports to the Department, as necessary, to assure continuous compliance with 310 CMR 7.72; and

d. Maintain other records and provide any other information as the Department might reasonably require.

7.73: Reducing Methane Emissions from Natural Gas Distribution Mains and Services

(1) <u>Purpose, Scope and Authority</u>. The purpose of 310 CMR 7.73 is to assist the Commonwealth in achieving the greenhouse gas emissions reduction goals adopted pursuant to M.G.L. c. 21N, § (3)(b) by reducing methane (CH₄) emissions from natural gas distribution mains and services through the imposition of declining annual aggregate emission limits on certain sources of greenhouse gas emissions in the natural gas distribution pipeline sector in the Commonwealth. 310 CMR 7.73 is promulgated pursuant to M.G.L. c. 21N, § 3(d) and is also promulgated pursuant to M.G.L. c. 21A, §§ 2, 8 and 16, and M.G.L. c. 111, §§ 2C and 142A through 142E, to prevent and abate conditions of air pollution from the greenhouse gas emissions from the area sources specified in 310 CMR 7.73.

(2) <u>Definitions</u>. The terms used in 310 CMR 7.73 are defined in 310 CMR 7.73(2) and in 310 CMR 7.00: *Definitions*. Where a term is defined in 310 CMR 7.00: *Definitions* and 310 CMR 7.73 the definition in 310 CMR 7.73 shall apply.

Calendar Year means January 1st through December 31st.

<u>Designated Representative</u> means the person who has been authorized by the gas operator to represent and legally bind the owner or operator in matters pertaining to the 310 CMR 7.73.

Distribution Line means a pipeline other than a gathering or transmission line.

<u>Gas Operator</u> means every Massachusetts gas operator with a Gas System Enhancement Plan applicable to its mains and services approved by the Massachusetts Department of Public Utilities (DPU) pursuant to M.G.L. c. 164, § 145 as of August 11, 2017, the corporate successor of such gas operator and/or the purchaser of the mains and services that are subject to a DPU-approved Gas System Enhancement Plan.

<u>Main</u> means a distribution line that serves as a common source of supply for more than one service.

<u>Service</u> means a distribution line that transports gas from a common source of supply to an individual customer, to two adjacent or adjoining residential or small commercial customers, or to multiple residential or small commercial customers served through a meter header or manifold. A service ends at the inlet of the customer meter or at the connection to a customer's piping, whichever is further upstream, or at the connection to customer piping if there is no meter.

- (3) <u>Applicability</u>. Every Massachusetts gas operator.
- (4) Annual CH_4 Emission Limits.

(a) <u>Individual Operator Limits</u>. For each calendar year specified in 310 CMR 7.73(4)(a): *Tables 1 through 6*, each named gas operator shall ensure that the annual CH_4 emissions from all of its active mains and services, as calculated pursuant to 310 CMR 7.73(5)(b)7., shall not exceed the following maximum allowable annual CH_4 emission limits:

Table 1 - Maximum Annual CH4 Emission Limits - Boston Gas Company and Colonial Gas Companyeach d/b/a National Grid	
Calendar Year	Maximum Allowable CH ₄ Emissions (metric tons of carbon dioxide equivalent)
2020	108,647
2021	106,817
2022	102,699
2023	98,561
2024	94,532

7.73: continued

Table 2a - Maximum Annual CH ₄ Emission Limits - Bay State Gas Company d/b/a Columbia Gas of Massachusetts and Eversource Gas Company of Massachusetts	
Calendar Year	Maximum Allowable CH ₄ Emissions (metric tons of carbon dioxide equivalent)
2020	24,399

Table 2b - Maximum Annual CH_4 Emission Limits - Eversource Gas Company of Massachusetts	
Calendar Year	Maximum Allowable CH ₄ Emissions (metric tons of carbon dioxide equivalent)
2021	25,341
2022	23,039
2023	20,825
2024	18,567

Table 3 - Maximum Annual CH ₄ Emission Limits - The Berkshire Gas Company	
Calendar Year	Maximum Allowable CH ₄ Emissions (metric tons of carbon dioxide equivalent)
2020	3,490
2021	3,112
2022	2,945
2023	2,776
2024	2,605

Table 4 - Maximum Annual CH4 Emission Limits - Fitchburg Gas and Electric Light Companyd/b/a Unitil	
Calendar Year	Maximum Allowable CH ₄ Emissions (metric tons of carbon dioxide equivalent)
2020	1,981
2021	1,713
2022	1,618
2023	1,541
2024	1,477

Table 5 - Maximum Annual CH ₄ Emission Limits - Liberty Utilities (New England Natural Gas Company) Corp.	
Calendar Year	Maximum Allowable CH ₄ Emissions (metric tons of carbon dioxide equivalent)
2020	5,445
2021	5,066
2022	4,670
2023	4,273
2024	3,877

Table 6 - Maximum Annual CH ₄ Emission Limits - NSTAR Gas Company d/b/a Eversource Energy	
Calendar Year	Maximum Allowable CH ₄ Emissions (metric tons of carbon dioxide equivalent)
2020	25,358
2021	23,939
2022	22,212
2023	20,486
2024	18,756

(b) <u>Sum of Individual Operator Limits</u>. For each calendar year, 310 CMR 7.73(4)(b): *Table* 7 lists the sum of the annual CH_4 emission limits from all active mains and services of gas operators named in 310 CMR 7.73(4)(a): *Tables 1* through 6:

Table 7 - Sum of Annual CH4 Emission Limits from Mains and Services of Gas Operators named in310 CMR 7.73(4)(a): Tables 1 through 6	
Calendar Year	CH ₄ Emissions (metric tons of carbon dioxide equivalent)
2020	169,320
2021	165,988
2022	157,183
2023	148,468
2024	139,814

(c) <u>CH₄ Emissions Set-aside, Aggregate Limits and Petition Process for Modifying CH_4 Emission Limit.</u>

1. The Department has set-aside the quantities of CH_4 in 310 CMR 7.73(4)(c): *Table* 8 for each calendar year for gas operators that petition to modify their limits in 310 CMR 7.73(4) based on 310 CMR 7.73(4)(c)3. For each calendar year specified in 310 CMR 7.73(4)(c): *Table* 8, the annual CH_4 emission limits from all active mains and services of gas operators named in 310 CMR 7.73(4)(a): *Tables 1* through 6 shall not exceed the maximum allowable annual aggregate CH_4 emission limits in 310 CMR 7.73(4)(c): *Table* 8.

Table 8 - CH ₄ Emissions Set-aside and Maximum Annual Aggregate CH ₄ Emission Limit		
Calendar Year	CH ₄ Emissions Set-aside	Maximum Allowable Annual Aggregate CH ₄ Emission Limit
	(metric tons of carbon dioxide equivalent)	
2020	39,509	208,829
2021	37,990	203,978
2022	37,550	194,733
2023	37,114	185,576
2024	36,682	176,496

2. Upon written petition from a gas operator, the Department may modify the CH_4 emission limits and allocate additional CH_4 in excess of the limits in 310 CMR 7.73(4)(a) provided that the set-aside amount of CH_4 in each calendar year in 310 CMR 7.73(4)(c): *Table 8* is not exceeded.

3. The basis for the petition shall be the Annual Report for Calendar Year 20[XX] Gas Distribution System submitted by the gas operator to the United States Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA).

4. <u>Requirements for the Petition</u>.

a. The gas operator shall submit the petition to the Department no later than the April 15th after the end of the calendar year for which the gas operator seeks to have additional CH_4 allocated, and include a copy of the Annual Report submitted to PHMSA.

b. The petition shall be signed and certified in accordance with the requirements at 310 CMR 7.73(5)(b)9.

5. In its sole discretion, the Department will approve or deny the petition in writing within 60 days of receipt of the petition. During the 60-day review period, the Department may request additional information from the gas operator. Depending on when the Department receives the information, and the volume of the information, the Department may extend the 60-day review period.

a. If the Department approves the petition, calculates a modified or new limit, and/or allocates additional CH_4 , the modified CH_4 emission limit(s) in the approval letter shall be enforceable in *lieu* of the CH_4 emission limit in 310 CMR 7.73(4)(a). b. If the Department denies the petition, the gas operator may request an adjudicatory hearing on the decision, by filing a notice of claim with the Department within 21 days of the date of issuance of the Department's denial of the petition pursuant to 310 CMR 1.01: *Adjudicatory Proceeding Rules for the Department of Environmental Protection*.

(5) Annual Reporting Requirements.

(a) By April 15, 2021 and on April 15th of each year thereafter, each gas operator must submit an annual report to the Department for emissions that occurred during the previous calendar year.

(b) The annual report shall be submitted electronically in a format specified by the Department, and must contain all of the following information:

- 1. The gas operator's name, physical address, and mailing address;
- 2. The location of records and documents;

3. The name and contact information including e-mail address and telephone number of the designated representative submitting the report, and the person(s) primarily responsible for preparing the report;

4. The year for which the information is submitted;

5. The miles of mains and number of services owned, leased, operated, or controlled by the gas operator and located in Massachusetts by each material type listed in 310 CMR 7.73(5)(b): *Table 9*, as recorded in the *Annual Report* to PHMSA;

6. The miles of mains and number of services owned, leased, operated, or controlled by the gas operator and located in Massachusetts by age and each material type listed in 310 CMR 7.73(5)(b): *Table 9*;

7. The number of metric tons of CH_4 , in carbon dioxide equivalents, by each material type listed in 310 CMR 7.73(5)(b)8.: *Table 9*, emitted from mains and services owned, leased, operated, or controlled by the gas operator and located in Massachusetts during the year, as calculated by multiplying the miles of mains and number of services by the appropriate emission factor in 310 CMR 7.73(5)(b)8.: *Table 9*;

8. Any other information requested by the Department; and

9. The authorized signature of a designated representative of the gas operator, and the following certification statement: "I certify that I have personally examined the report for this facility and am familiar with the information contained in that report and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment."

Table 9 - Methane Emission Factors by Material Type		
Mains	Metric tons of carbon dioxide equivalent/ mile-year	
Cast or wrought iron	28.663225	
Ductile iron		
Copper		
Steel, cathodically unprotected and uncoated	20.281978	
Steel, cathodically unprotected and coated		
Other		
Steel, cathodically protected and uncoated		
Steel, cathodically protected and coated	1.804054	
Plastic	0.215583	
Services	Metric tons of carbon dioxide equivalent/ service-year	
Steel, cathodically unprotected and uncoated	0.129589	
Steel, cathodically unprotected and coated		
Cast or wrought iron		
Ductile iron		
Other		
Steel, cathodically protected and uncoated		
Steel, cathodically protected and coated	0.055982	
Plastic	0.005136	
Copper	0.121920	

(6) <u>Monitoring, Q/A, and Recordkeeping Requirements</u>. All gas operators shall retain for five years documentation sufficient to demonstrate compliance with 310 CMR 7.73 and shall provide such documentation to the Department on request. The documentation shall be submitted in the format and within the time limit requested by the Department.

(7) <u>Compliance Verification</u>. The Department may verify compliance with 310 CMR 7.73 by conducting inspections, requesting information and records and requiring the collection of information not previously required; provided that 310 CMR 7.73(7) does not limit the authority of the Department as otherwise provided by law or in an authorization, determination, modification, permit, or other approval, or by the terms of any order or other enforcement document.

(a) <u>Access to Information</u>. Where necessary to ascertain compliance with 310 CMR 7.73 including actual or potential CH_4 emission, the Department may request of a gas operator information or records. The gas operator shall, within a reasonable time, furnish the requested information or records and shall permit Department personnel or authorized representatives to have access to and to take images of such records.

(b) <u>Requirement to Collect Information</u>. When the Department has reason to believe that a gas operator has exceeded its CH_4 emission limit or violated any other condition in 310 CMR 7.73, the Department may require the gas operator to submit the necessary information or records to determine compliance. In doing so, the Department may require a gas operator to:

1. Perform audits on CH_4 emissions records using standard procedures and methods;

2. Quantify CH_4 emissions in accordance with the procedures and methods as the Department may prescribe;

3. Make periodic reports to the Department, as necessary, to assure continuous compliance with 310 CMR 7.73; and

4. Maintain other records and provide any other information as the Department might reasonably require.

(8) <u>Enforcement</u>.

(a) If a gas operator exceeds the Maximum Annual CH^4 Emission limits set forth in the applicable table provided in 310 CMR 7.73(4)(a), as amended by a petition approved under 310 CMR 7.73(4)(c)5.a., any such excess emissions shall be deemed to be a release of air pollutants into the environment without the authorization or approval of the Department, and shall be presumed to constitute a significant impact to public health, welfare, safety, and the environment.

(b) The Department shall enforce the requirements of 310 CMR 7.73 in accordance with applicable federal and Massachusetts law including, but not limited to, M.G.L. c. 21A, § 16, 310 CMR 5.00: *Administrative Penalty*, M.G.L. c. 111, § 2C, §§ 142 A through 142M; and M.G.L. c. 21N, § 7(d).

(9) <u>Program Review</u>. Not later than December 31, 2024, the Department shall complete a review, including an opportunity for public comment on the program review, of the requirements of 310 CMR 7.73 to determine whether the program should be amended or extended. This review shall evaluate whether to require the use of feasible technologies to detect and quantify gas leaks and any other information relevant to review of the program.

7.74: Reducing CO₂ Emissions from Electricity Generating Facilities

(1) <u>Purpose, Authority and Scope</u>. The purpose of 310 CMR 7.74, promulgated in conjunction with 310 CMR 7.75, is to assist the Commonwealth in achieving the greenhouse gas emissions reduction goals adopted pursuant to M.G.L. c. 21N, § 3(b), by establishing declining annual aggregate CO₂ emissions limits that will reduce CO₂ emissions from electricity generating facilities. To achieve those goals, the Executive Office of Energy and Environmental Affairs (EEA) and the Department pursuant to M.G.L. c. 21A, §§ 2 and 8 and M.G.L. c. 21N, §§ 3(c), 4 and 7 hereby jointly promulgate 310 CMR 7.74, following consultation with the Department of Energy Resources and based on the considerations specified in M.G.L. c. 21N, § 3(c). 310 CMR 7.74 is also promulgated pursuant to M.G.L. c. 21A, § 16, M.G.L. c. 21N, § 3(d) and M.G.L. c. 111, §§ 2C and 142A through 142E. In exercising their broad authority and discretion under M.G.L. c. 21N, §§ 3(c) and 3(d), EEA and MassDEP have determined that additional emissions limits on in-state electricity generating facilities' greenhouse gas emissions, along with other climate policies and programs, will ensure achievement of the greenhouse gas emissions limits as established under M.G.L. c. 21N, and that the 310 CMR 7.74 limits are consistent with, and take account of, regional programs such as the Regional Greenhouse Gas Initiative (RGGI) and the Renewable Portfolio Standard (RPS). The CO₂ emissions limits set forth in 310 CMR 7.74(5) are applicable for the years 2021 through 2050 beginning January 1, 2021.

(2) <u>Definitions</u>. The terms used in 310 CMR 7.74 are defined in 310 CMR 7.74(2) and 310 CMR 7.00: *Definitions*. Where a term is defined in 310 CMR 7.00: *Definitions* and 310 CMR 7.74, the definition in 310 CMR 7.74 shall apply.

<u>Allowance</u> means a limited authorization to emit one metric ton of CO_2 in compliance with 310 CMR 7.74.

<u>Allowance Registry</u> means the database that tracks allowances held by electricity generating facilities and used for compliance. The Department shall establish an account in the allowance registry for each electricity generating facility.

7.73: continued

<u>Annual CO₂ Emissions</u> means the total amount of CO₂ emissions measurements recorded and reported for a calendar year in accordance with the Massachusetts CO₂ Budget Trading Program at 310 CMR 7.70(8)(e)4., converted from short tons to metric tons and adjusted, as applicable, for the production of useful net thermal energy pursuant to the Massachusetts CO₂ Budget Trading Program at 310 CMR 7.70(8)(i).

Bidder means a party qualified, pursuant to 310 CMR 7.74(6)(h)4.a., to participate in an auction.

Calendar Year or Year means January 1st through December 31st.

<u>Deduct</u> or <u>Deduction</u> means the permanent removal of allowances from an account in the allowance registry.

<u>Designated Representative</u> means the person who is authorized by the owner and operator of an electricity generating facility to represent and legally bind the owner and operator in matters pertaining to 310 CMR 7.74.

<u>Electricity Generating Facility</u> means a facility that includes one or more electricity generating units for which the owner or operator is required to report CO_2 emissions pursuant to the Massachusetts CO_2 Budget Trading Program at 310 CMR 7.70(8); provided, however, that the following facilities are not electricity generating facilities for purposes of 310 CMR 7.74: MWRA Deer Island and MBTA South Boston Power.

<u>Emergency</u> means a period during when the regional transmission organization has issued an alert that an abnormal condition affecting the reliability of the power system exists or is anticipated in Massachusetts.

NON-TEXT PAGE

Existing Electricity Generating Facility means an electricity generating facility listed in 310 CMR 7.74(5)(b): *Table B*.

Existing Facility Aggregate CO_2 Emissions Limit means, with respect to calendar year 2018, the sum of all existing facilities' CO_2 emissions limits, as listed in 310 CMR 7.74(5)(a): *Table A*.

<u>Massachusetts CO_2 Budget Trading Program</u> means the program the Department promulgated at 310 CMR 7.70 to reduce greenhouse gas emissions from CO_2 Budget Sources as defined in 310 CMR 7.70.

<u>New Electricity Generating Facility</u> means, with respect to calendar year 2018, 2019 and 2020, an electricity generating facility that is not an existing electricity generating facility.

<u>New Facility Aggregate CO₂ Emissions Limit</u> means, with respect to calendar year 2018, the sum of all new electricity generating facility CO_2 emissions limits, as listed in 310 CMR 7.74(5)(a): *Table A*.

<u>Offset</u> means to use allowances to cover CO_2 emissions from an electricity generating facility pursuant 310 CMR 7.74.

<u>Operator</u> means any person or group of persons who operates, controls, or supervises an electricity generating facility including, but not limited to, any holding company, utility system, plant manager, or operations manager of the electricity generating facility.

Owner means any of the following persons or group of persons:

(a) Any holder(s) of any portion of the legal or equitable title in an electricity generating facility; or

(b) Any holder(s) of a leasehold interest in an electricity generating facility.

<u>Reserve Price</u> means the minimum acceptable price for each allowance in a specific auction.

<u>Sealed Bid, Uniform Price Auction</u> means a single or multiple round sealed-bid auction in which bidders may submit multiple bids at different prices; the price paid by all awarded bidders will be uniform.

<u>Serial Number</u> means, when referring to allowances, the unique identification number assigned by the Department to each allowance.

<u>Total Aggregate CO₂ Emissions Limit</u> means, with respect to a particular calendar year, the maximum allowable aggregate limit on CO₂ emissions from all electricity generating facilities subject to 310 CMR 7.74, as listed in 310 CMR 7.74(5)(a): *Table A*.

(3) <u>Applicability</u>. 310 CMR 7.74 applies to all owners and operators of an electricity generating facility.

(4) <u>Compliance with CO₂ Emissions Limits</u>. The owner or operator of an electricity generating facility shall offset annual CO₂ emissions using allowances in its allowance registry account pursuant to 310 CMR 7.74(6) and (7).

(5) <u>CO₂ Emissions Limits</u>.

(a) Total Aggregate CO₂ Emissions Limits. The total aggregate CO₂ emissions limit for 2018 is 9,149,979 metric tons of CO₂. The total aggregate CO₂ emissions limit for 2019 is 8,731,175. The total aggregate CO₂ emissions limit declines by 223,876 metric tons each year thereafter until it reaches 8,507,299 metric tons of CO₂ in 2020 and 1,791,019 metric tons of CO₂ in 2050. For 2018, the existing facility aggregate CO₂ emissions limit and the new facility aggregate CO₂ emissions limit were calculated from the total aggregate CO₂ emissions limit. The existing facility aggregate CO₂ emissions limit, and new facility aggregate CO₂ emissions limit. The init for calendar year 2018 are shown in 310 CMR 7.74(5)(a): *Table A*.

310 CMR 7.74(5)(a): *Table A* 2018 Existing Facility Aggregate and New Facility Aggregate CO₂ Emissions Limits in Metric Tons

Year	Existing Facility Aggregate CO ₂ Emissions Limit	New Facility Aggregate CO ₂ Emissions Limit	
2018	7,649,979	1,500,000	

(b) Existing Individual Electricity Generating Facility CO_2 Emissions Limits for 2018. The CO_2 emissions limits for existing electricity generating facilities are shown in 310 CMR 7.74(5)(b): *Table B*.

310 CMR 7.74(5)(b): Table B

Existing Individual Electricity Generating Facility CO₂ Emissions Limits in Metric Tons

Facility	Limit
ANP Bellingham	860,250
ANP Blackstone	787,429
Bellingham	233,789
Berkshire Power	437,049
Braintree Electric	24,425
Canal Station	101,922
Cleary Flood	50,453
Dartmouth Power	48,348
Dighton	330,396
Fore River Energy	1,433,568
Kendall Square	502,191
MASSPOWER	304,108
Medway Station	1,603
Milford Power, LLC	148,912
Millennium Power	667,082
Mystic	1,516,066
Pittsfield Generating	79,959
Stony Brook	68,844
Tanner Street	36,655
Waters River	1,587
West Springfield	15,343

(c) Apportionment of New Facility Aggregate CO₂ Emissions Limit for 2018. By February 15, 2019, the Department shall apportion the 2018 new facility aggregate CO₂ emissions limit among electricity generating facilities. The apportionment shall be based on CO_2 emissions reported by new electricity generating facilities pursuant to 310 CMR 7.74(7) by February 1, 2019, and shall be completed pursuant to 310 CMR 7.74(5)(c)1. through 3.

1. <u>New Electricity Generating Facilities' CO_2 Emissions Limits for 2018</u>. The Department shall determine whether the sum of CO_2 emissions from new electricity generating facilities reported pursuant to 310 CMR 7.74(7) is less than, equal to, or greater than the new facility aggregate CO_2 emissions limit for 2018.

a. If the sum of new electricity generating facility CO_2 emissions is less than or equal to the new facility aggregate CO_2 emissions limit for 2018, then the Department shall set each new electricity generating facility's 2018 emissions limit equal to its CO_2 emissions for 2018.

b. If the sum of new electricity generating facility CO_2 emissions is greater than the new facility aggregate CO_2 emissions limit for 2018, the Department shall ensure that the sum of all new facility CO_2 emissions limits equals the new facility aggregate CO_2 emissions limit for the year by completing the following calculations:

i. Calculate a discount factor by dividing the new facility aggregate CO_2 emissions limit by the total amount of CO_2 emitted by all new electricity generating facilities in 2018; and

ii. Calculate each new electricity generating facility's 2018 limit as the product of the facility's CO_2 emissions and the discount factor.

2. <u>Distribution of Excess New Facility CO₂ Emissions Limit</u>. If the Department determines pursuant to 310 CMR 7.74(5)(c)1. that the sum of CO₂ emissions from new electricity generating facilities is less than the new facility aggregate CO₂ emissions limit for 2018, then the Department shall:

a. Calculate the difference between the new facility aggregate CO_2 emissions limit and the sum of CO_2 emissions from new electricity generating facilities;

b. Calculate the product of such difference and each existing electricity generating facility's fraction of the existing facility aggregate CO_2 emissions limit for 2018; and c. Deposit allowances equal to the product, minus any allowances distributed pursuant to 310 CMR 7.74(5)(c)3., in the allowance registry account of each existing electricity generating facility.

3. Early Distribution of Excess New Facility CO_2 Emissions Limit. By November 15, 2018, the Department may determine that the sum of CO_2 emissions from new electricity generating facilities will be less than the new facility aggregate CO_2 emissions limit for the year. In making this determination, the Department shall consider CO_2 emissions reported pursuant to the Massachusetts CO_2 Budget Trading Program at 310 CMR 7.70(8)(e)4. for the months of January through September 2018, and any physical or permitted limits on the potential for the facility to emit (*e.g.*, on hourly fuel combustion) during the months of October through December 2018. If the Department determines that the sum of CO_2 emissions from new electricity generating facilities will be less than the new facility aggregate CO_2 emissions limit for 2018, then by December 1, 2018 the Department shall:

a. Calculate the minimum possible difference between the new facility aggregate CO_2 emissions limit and the sum of CO_2 emissions from new electricity generating facilities for 2018;

b. Calculate the product of such minimum possible difference and each existing electricity generating facility's fraction of the existing facility aggregate CO_2 emissions limit for 2018; and

c. Deposit allowances equal to the product in the allowance registry account of each existing electricity generating facility.

(6) <u>Allocation, Transfer, and Use of Allowances</u>.

(a) <u>Allocation of Allowances</u>.

1. <u>Allocation of Allowances for 2018</u>. For 2018, the Department shall allocate allowances to new and existing electricity generating facilities in accordance with the quantities, processes, and schedule for establishing individual facility CO_2 emissions limits specified in 310 CMR 7.74(5)(b) through (c), and deposit them in the allowance registry accounts of the electricity generating facilities.

2. Allocation of Allowances for 2019 and 2020.

a. For 2019 and 2020, the Department shall allocate allowances equal to 25% and 50%, respectively, of the total aggregate CO_2 emissions limit for the year, subject to adjustment pursuant to 310 CMR 7.74(6)(f), using an auction in accordance with 310 CMR 7.74(6)(h). The exact number of allowances allocated using an auction for each year is specified in 310 CMR 7.74(6)(a)2: *Table C* ("Auction" line).

b. For 2019 and 2020, allowances not allocated using an auction shall be allocated in accordance with the processes and schedule for establishing 2018 individual facility CO2 emissions limits specified in 310 CMR 7.74(6)(a)1. and 7.74(5)(b) through (c), except that:

i. The quantities specified in 310 CMR 7.74(6)(a)2.: *Table C* for the facilities listed by name shall be used in place of quantities specified for establishing 2018 CO2 emissions limits for existing electricity generating facilities in 310 CMR 7.74(5)(a): *Table A* and (b): *Table B*. Allocations to facilities listed by name in 310 CMR 7.74(6)(a)2: *Table C* shall occur on April 1, 2019 (for 2019), and April 1, 2020 (for 2020).

ii. The quantities specified in 310 CMR 7.74(6)(a)2.: *Table C* ("New Facilities" line) shall be used in place of the quantity specified in 310 CMR 7.74(5)(a): *Table A* for establishing the 2018 the new facility aggregate CO2 emissions limit. Each process specified for establishing 2018 CO₂ emissions limits for new electricity generating facilities in 310 CMR 7.74(5)(c) shall be repeated one year later than specified in 310 CMR 7.74(5)(c) to complete the 2019 allocation, and two years later to complete the 2020 allocation.

	2019 Allocation	2020 Allocation
Auction	2,182,794	4,253,650
New Facilities	1,125,000	750,000
ANP Bellingham	609,866	393,990
ANP Blackstone	558,240	360,638
Bellingham	165,743	107,074
Berkshire Power	309,842	200,166
Braintree Electric	17,316	11,187
Canal Station	72,257	46,680
Cleary Flood	35,768	23,107
Dartmouth Power	34,276	22,143
Dighton	234,231	151,320
Fore River Energy	1,016,315	656,566
Kendall Square	356,024	230,001
MASSPOWER	215,595	139,280
Medway Station	1,136	734
Milford Power, LLC	105,570	68,201
Millennium Power	472,922	305,520
Mystic	1,074,800	694,349
Pittsfield Generating	56,686	36,621
Stony Brook	48,806	31,530
Tanner Street	25,986	16,788
Waters River	1,125	727
West Springfield	10,877	7,027
(Total)	8,731,175	8,507,299

310 CMR 7.74(6)(a)2: *Table C* Allowance Allocations for 2019 and 2020

3. <u>Allocation of Allowances for 2021 and All Future Years</u>. For 2021 and all future years, the Department shall allocate allowances equal to the total aggregate CO_2 emissions limit for the year, subject to adjustment pursuant to 310 CMR 7.74(6)(f), using an auction in accordance with 310 CMR 7.74(6)(h).

4. Once allocated, allowances may be used or transferred pursuant to 310 CMR 7.74(6)(b) or (c), regardless of the year or method of allocation.

(b) <u>Use of Allowances</u>.

1. The owner or operator of an electricity generating facility may use allowances to offset CO_2 emissions for a particular year pursuant to 310 CMR 7.74(6)(e), provided that the allowances used are in the electricity generating facility's allowance registry account on March 1st of the year following the year in which the CO_2 emissions occurred.

2. Allowances may be used exclusively by the owners or operators of electricity generating facilities to comply with 310 CMR 7.74 and are not property rights.

(c) <u>Transfer of Allowances</u>.

1. The owner or operator of an electricity generating facility may transfer allowances to the owner or operator of another electricity generating facility by submitting a notice of transfer to the Department at any time except during the month of March.

2. The notice of transfer shall include the name of the electricity generating facility, the number of allowances to be transferred, the serial numbers of the allowances to be transferred, the name and account number of the electricity generating facility to which the allowances will be transferred, and the certification statement required by 310 CMR 7.74(7)(b) that has been signed by the designated representative of the transferring electricity generating facility, or his or her designee, allowing the transfer of allowances. 3. The Department may require reporting of a price for transfers of allowances between electricity generating facilities that have different owners or operators through submission of a form as specified by the Department.

4. If requested by the Department, a notice of transfer may also be used to initiate a deduction pursuant to 310 CMR 7.74(6)(g).

(d) <u>Emergency Deferred Compliance</u>. If an electricity generating facility emits CO_2 during an emergency that occurs on or after January 1, 2018, the electricity generating facility owner or operator may choose to defer for one year a portion or the entirety of the electricity generating facility's compliance obligation with respect to CO_2 emissions emitted during such emergency, provided that such CO_2 emissions shall be offset in the following year on a twofor-one basis pursuant to 310 CMR 7.74(6)(e)2.

1. If an electricity generating facility owner or operator chooses to defer the electricity generating facility's compliance obligation with respect to any CO_2 emissions emitted during an emergency pursuant to 310 CMR 7.74(6)(e), then the owner or operator shall complete the following steps:

a. Identify the quantity of such CO_2 emissions emitted during the emergency, and the hours and dates during which the emergency occurred, in its compliance certification report submitted pursuant to 310 CMR 7.74(7)(a) for the calendar year during which the CO_2 emissions occurred; and

b. Offset such CO2 emissions on a two-for-one basis pursuant to 310 CMR 7.74(6)(e)2. by identifying the necessary number of allowances in its compliance certification report submitted pursuant to 310 CMR 7.74(7)(a) for the following calendar year.

2. In order to ensure that the use of emergency deferred compliance does not reduce the total number of allowances available for use by facilities to comply with 310 CMR 7.74, the Department shall, during the month of March of any year, determine the total amount of emissions for which compliance has been deferred from the prior year pursuant to 310 CMR 7.74(6)(d), and adjust the number of allowances available for sale by auction for the year upward by that amount.

(e) <u>Compliance with CO₂ Emissions Limits</u>. On March 1^{st} of each year, each electricity generating facility's allowance registry account shall hold a number of allowances that is equal to or greater than the sum of:

1. The amount of annual CO_2 emissions that the electricity generating facility emitted during the prior calendar year, minus any emissions for which compliance is being deferred pursuant to 310 CMR 7.74(6)(d); and

2. Twice the amount of CO_2 emissions that the electricity generating facility emitted during the year before the prior calendar year (*e.g.*, on March 1, 2020 for 2018 emissions), but was not offset because compliance was deferred pursuant to 310 CMR 7.74(6)(d).

(f) <u>Banking of Allowances</u>. Allowances may be retained for use in future years, provided that the total amount of CO_2 emitted by all electricity generating facilities in any year is less than the total aggregate CO_2 emissions limit for the prior year, before accounting for any emergency deferred compliance. In order to enforce this limitation on banking, the Department shall complete the following steps during the month of March of each year:

1. Determine the total quantity of allowances remaining in all allowance registry accounts after deducting allowances pursuant to 310 CMR 7.74(6)(g).

2. Subtract 223,875 from the quantity determined pursuant to 310 CMR 7.74(6)(f)1. to determine the adjustment required to enforce the limitation on banking.

3. Adjust the number of allowances available for sale by auction for the year pursuant to 310 CMR 7.74(6)(h) by the amount calculated pursuant to 310 CMR 7.74(6)(f)2.

(g) <u>Deduction of Allowances for Compliance</u>. During the month of March of each year, the Department shall deduct allowances from each electricity generating facility's allowance registry account in the following order:

1. To address any emergency deferred compliance obligation accrued during the year before the prior calendar year pursuant to 310 CMR 7.74(6)(e); and

2. To offset annual CO_2 emissions that occurred during the prior calendar year.

(h) <u>Allowance Auctions</u>. For the years 2019 through 2050, the Department shall conduct a series of auctions pursuant to 310 CMR 7.74(6)(h) to sell allowances to be used by owners or operators of electricity generating facilities to offset annual CO_2 emissions.

1. <u>Allowance Auction Procedures</u>.

a. Auctions shall be conducted quarterly, but the Department may adjust the frequency of such auctions as it deems necessary to effectuate the objectives 310 CMR 7.74, provided at least one auction is conducted annually.

b. The implementation of any auction conducted pursuant to 310 CMR 7.74 may be transferred by the Department to an agent deemed qualified by the Department to conduct such auction, provided that such agent shall perform all such duties under the direction and oversight of the Department.

c. The auction format shall be a Sealed Bid, Uniform Price Auction.

d. Prior to the end of each calendar year, allowances in a quantity equal to the number specified in 310 CMR 7.74(6)(a)2. and 3., subject to adjustment pursuant to 310 CMR 7.74(6)(f), will be available for sale by auction. Such allowances will be available for sale by auction for each calendar year. The Department may require that allowances are sold in minimum lot sizes. In such event, such lot sizes shall be published in the auction notice pursuant to 310 CMR 7.74(6)(h)2. No more than 50% of the allowances from a calendar year may be available for sale in advance of the respective calendar year, up to four years in advance of such calendar year.

e. The Department shall post a calendar of proposed auction dates on its web site. The calendar shall include the auction format and the number and years of allowances to be auctioned at each auction. The Department may periodically modify the contents of the calendar, provided that the information relevant to the next scheduled auction shall be fixed in the auction notice no later than 45 calendar days prior to such auction, consistent with 310 CMR 7.74(6)(h)2.a.

f. Auctions of allowances may be held with a reserve price. The Department is not obligated to sell allowances if the reserve price is not met.

g. No bidder, including any affiliate or agent of such bidder, shall purchase more than 50% of the allowances offered for sale in any one auction. Such limitation shall be published in the auction notice pursuant to 310 CMR 7.74(6)(h)2., and may be reduced or set equal to zero by the Department for one or more bidders after consultation with a qualified agent or market monitor employed pursuant to 310 CMR 7.74(6)(h)1.b. or 5.a.

h. The Department may periodically evaluate the auction program performance and may retire any allowances that were offered for sale by auction but were not sold.

i. Proceeds of such auctions shall be paid to the Department and deposited in a segregated account and administered by a Trustee appointed by EEA and the Department. The funds shall be expended to further the goals of M.G.L. c. 21N by supporting programs or projects to reduce greenhouse gas emissions in order to mitigate the impacts of climate change including, but not limited to, clean energy and vehicle electrification projects; programs and projects to support adaptation to the impacts of climate change; mitigation or adaptation programs or projects involving communities that are already adversely impacted by air pollution including, but not limited to, environmental justice communities; and for the administration of any such programs or projects. Auction proceeds may also be used for the administration of 310 CMR 7.74. Auction proceeds shall be expended at the direction of the Trustee, in consultation with EEA and the Department. The Trustee, EEA and the Department may consult with and enter into agreements with other agencies within the EEA Secretariat to assist in the administration and expenditure of auction proceeds.

2. Auction Notice.

a. Notice of each auction shall be published no later than 45 calendar days prior to such auction, and may be transmitted electronically to parties requesting such notification.

- b. Each notice shall include, but not be limited to, the following information:
 - i. Date, time and location of the auction, including the internet address or electronic address for auction location, as applicable;
 - ii. Auction format;
 - iii. Categories of bidders who will be eligible to bid;
 - iv. Quantity and years of allowances to be auctioned;
 - v. Reserve Price;

- vii. Instructions for submitting the qualification application;
- viii. Instructions for submitting acceptable financial surety;
- ix. Procedures for the conduct of the auction;
- x. Participation limitations; and
- xi. Other pertinent rules or procedures of the auction as may be required to ensure a transparent, fair and competitive auction.

3. <u>Participant Eligibility</u>. Only owners and operators of electricity generating facilities are eligible to participate in auctions.

4. <u>Bid Submittal Requirements</u>.

a. <u>Qualification Application</u>.

i. Only qualified bidders will be permitted to submit bid(s) or otherwise participate in any auction.

ii. Only parties with accounts in the allowance registry may participate in the auction.

iii. Potential bidders shall submit a qualification application to the Department at least 30 calendar days prior to the bid submittal date of such auction or by such deadline as the Department shall stipulate in the auction notice. Qualification applications shall contain the information set forth in 310 CMR 7.74(6)(h)4.a. and the auction notice.

iv. The applicant shall provide information and documentation relating to its corporate structure, financial ability to participate in the auction and authority to execute bids and honor contractual obligations. Such information may include, but is not limited to the following:

(i) Documentation regarding the corporate identity, ownership, and capital structure of the applicant; identification of any agency relationship between the applicant and any third party related to the auction;

(ii) Audited annual reports and credit reports of the applicant and/or the entity represented by the applicant;

(iii) Corporate background and recent adverse conditions, which may include:

-1. Identification of any indictment or felony conviction of the applicant, or any member, director, principle, partner or officer of the applicant or any affiliate or related entity;

-2. A statement by the applicant as to prior findings of non-responsibility with regard to any state procurement including findings under state law or regulation;

-3. A statement by the applicant as to certification under any state tax registration requirement;

-4. Identification of any previous or pending investigation with respect to any alleged violation any rule, regulation, or law associated with any commodity market or exchange;

-5. Evidence demonstrating that such applicant has an allowance registry account;

-6. Identification of relationships with any other account holder.

v. The Department shall review each qualification application and make determinations as to whether the applicant is qualified to submit bids in the auction. Applicants may be denied eligibility based on the information provided or upon information obtained independent of the application process. Failure to provide the required information may result in the qualification application being declared incomplete or otherwise deficient. The Department shall notify applicants in writing or by electronic mail if the qualification application is complete and meets the requirements for participation in the auction. If the qualification application does not meet such requirements, notification shall include the reasons therefore, and applicants will be given a reasonable opportunity to provide additional information to cure such deficiencies.

vi. Once an application has been approved, that bidder shall be eligible to participate in all subsequent auctions, provided there has been no material change to the information provided in the qualification application, and provided that the applicant meets the eligibility criteria of 310 CMR 7.74(6)(h)3. If there is any material change to the information submitted in the bidder's qualification application, the qualification expires and a new qualification application is required to be submitted.

The Department may suspend or revoke its approval of a qualification vii. application if the bidder fails to comply with 310 CMR 7.74(6)(h)4.

In order to reduce the administrative burden for the Department and viii. electricity generating facilities, the Department may, on a case-by-case basis, consider applicants that have been approved as bidders by DOER pursuant to 225 CMR 13.09(e) to be qualified bidders pursuant to 310 CMR 7.74(6)(h)4.a.v.

b. Surety Requirement.

i. Bidders shall be required to provide financial surety in the form of a bond, cash, certified funds, or an irrevocable stand-by letter of credit, in a form acceptable to the Department. A bidder's eligibility to bid in any auction shall be limited to the level of financial security provided. Financial surety may be forfeited to and retained by the Department in the event the bidder's offer is accepted in an auction and the bidder fails to tender payment of the full amount when due.

ii. Bidders may request return of their surety at any time prior to or following any auction, and the Department shall return said surety provided that the Commonwealth has no current or pending claim to such surety as a result of a failure of the bidder to comply with 310 CMR 7.74(6)(h)4.b. or to pay the full amount of its accepted bid when due. Return of such surety to the bidder voids the bidder's ability to participate in subsequent auctions unless a new surety is submitted to the Department pursuant to the provisions of 310 CMR 7.74(6)(h)4. iii. The surety requirements of 310 CMR 7.74(6)(h)4. may be modified by the Department at any time prior to the applicable auction date, and shall be published no later than 45 calendar days prior to such auction.

iv. In the event that the Department modifies the surety requirements, bidders shall meet the new surety requirements before the next auction.

c. Bid Submittal.

Once an application has been approved, and provided there has been no i. material change to the information provided in the application, bidders seeking to bid in any subsequent auction shall complete and submit an intent to bid on or before the deadline specified in the Auction Notice.

ii. All bids shall be on a form prescribed by the Department, which shall be made available electronically.

iii. All bids submitted shall be considered binding offers for the purchase of allowances under the rules of the auction.

iv. All qualified maximum bids shall be limited to the amount of financial surety provided by the qualified bidder pursuant to 310 CMR 7.74(6)(h)4.b.

v. Bids shall be submitted on-line and shall conform to the format and protocol of bid submission as set forth in the auction notice pursuant to 310 CMR 7.74(6)(h)2.

vi. If the Department determines that a bidder has provided false or misleading information, fails to honor an accepted bid, or has withheld pertinent information in its qualification documentation, or has otherwise failed to comply with any material provision of 310 CMR 7.74(6)(h)4., the surety amount may be forfeited to the Commonwealth, and the bidder may be prohibited from participating in any future auctions.

5. Bid Selection.

The Department may employ a market monitor to observe the conduct and a. outcome of each auction. As a condition to participation in any auction, bidders shall agree to provide, and shall provide on request, any data to the Department that the Department deems necessary to support this function and the proper monitoring of such auctions.

The Department will rank all bids. Allowances will be sold in the quantities h specified in the accepted bids until there are no remaining allowances available for the specified auction. In the event that there is more than one winning bidder submitting the same price and the total number of allowances requested in all such winning bids exceeds the number of allowances remaining, the Department may award the remaining allowances randomly, or based on the *pro rata* share of the number of allowances bid on by each winning bidder.

c. The Department shall approve or disapprove the outcome of the auction following the completion of the auction event.

6. <u>Transfer of Allowances</u>. Following approval of the outcome of the auction and upon payment in full of the amount owed by the successful bidders, the Department shall transfer allowances into the corresponding bidders' allowance registry account, provided that transfers resulting from auctions that occur before March 1st of a calendar year shall occur during the month of March.

7. <u>Return of Unsuccessful Bids</u>. Subject to 310 CMR 7.74(6)(h)4.b.ii. and 310 CMR 7.74(6)(h)4.c.vi., following each auction the Department will return upon written request all financial securities or payments to unsuccessful bidders and to bidders unwilling to purchase fewer allowances than requested in its bid.

8. <u>Announcement of Results</u>. The Department reserves the right to publish the names of qualified bidders, the closing price, and the total quantity of allowances sold at each auction.

(7) <u>Reporting Requirements</u>.

(a) <u>Compliance Certification Reporting</u>. By March 1, 2019, and March 1st of each year thereafter, the owner or operator of an electricity generating facility subject to 310 CMR 7.74 shall demonstrate compliance with the electricity generating facility's CO₂ emission limit by submitting a compliance certification report covering the CO₂ emissions from the prior calendar year. The compliance certification report shall include, among other information as requested by the Department, the following:

1. The name, address, contact person, and phone number of the electricity generating facility;

2. The electricity generating facility's assigned CO_2 emissions limit for 2018;

3. The electricity generating facility's annual CO_2 emissions for the prior calendar year as reported pursuant to 310 CMR 7.70(8), in short tons and metric tons;

4. The amount, if any, of CO_2 emissions for the prior calendar year for which compliance will be deferred pursuant to 310 CMR 7.74(6)(d), in short and metric tons, and the hours during which such CO_2 emissions occurred during the emergency.

5. The total number of allowances in the electricity generating facility's allowance registry account on March 1st;

6. The number of allowances in the electricity generating facility's allowance registry account that the owner or operator of the facility is using to offset CO_2 emissions that occurred during the prior calendar year;

7. The number of allowances in the electricity generating facility's allowance registry account that the owner or operator of the electricity generating facility is using to offset CO_2 emissions that occurred during an emergency in the year before the prior calendar year, on a two-for-one basis pursuant to 310 CMR 7.74(6)(d);

8. The total number of allowances remaining in the electricity generating facility's allowance registry account after offsetting CO_2 emissions pursuant to 310 CMR 7.74(7)(a)6. and 7.; and

9. The electronic signature of the designated representative submitting the form and certification by the designated representative in accordance with 310 CMR 7.74(7)(b).

(b) <u>Certification of Reports, Documents, and Information</u>. All reports, documents, and information submitted to the Department under 310 CMR 7.74 must be signed and attested to by the designated representative and shall include the following statement: "I certify that I have personally examined the information that I am submitting and I am familiar with the information submitted and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment."

(c) <u>Submission Format and Process</u>. The Department may specify the format and process for any submission required pursuant to 310 CMR 7.74, including electronic submission requirements.

(d) <u>Compliance Verification</u>. The Department may verify compliance with 310 CMR 7.74 by conducting inspections, requesting information and records, and requiring the collection of information. 310 CMR 7.74(7)(d) does not limit the authority of the Department as otherwise provided by law or in an authorization, determination, modification, permit, or other approval, or by the terms of any order or other enforcement document.

1. Access to Information. Where necessary to ascertain compliance with 310 CMR 7.74, including actual or potential CO_2 emissions, the Department may request information or records from any owner or operator of an electricity generating facility. The owner or operator shall, within a reasonable time, furnish the requested information or records and shall permit Department personnel or authorized representatives to have access to and to take images of such records.

2. <u>Requirement to Collect Information</u>. When the Department determines that any electricity generating facility has failed to offset its CO_2 emissions limit or violated any other condition in 310 CMR 7.74, the Department may require the owner or operator of said electricity generating facility to submit the necessary information or records. In doing so, the Department may require the electricity generating facility owner or operator to:

a. Establish and maintain records;

b. Perform audits on CO_2 emissions records or monitoring equipment using standard procedures and methods;

c. Quantify CO_2 emissions in accordance with any procedures and methods that the Department may prescribe;

d. Keep records on control equipment parameters, production variables, and other indirect data when direct monitoring of CO_2 emissions is not practical;

e. Perform additional CO_2 emissions monitoring, including conducting stack tests in accordance with 310 CMR 7.13 when continuous CO_2 emissions monitoring equipment information is unavailable;

f. Make periodic reports to the Department, as necessary, to assure continuous compliance with 310 CMR 7.74; and

g. Maintain other records and provide any other information the Department requires.

(8) <u>Recordkeeping Requirements</u>. The owner or operator of an electricity generating facility shall keep on-site at the electricity generating facility all records, data, reports and other information required by 310 CMR 7.74 for a period of three years from the date the record is created. The Department may extend this period for cause, in writing, at any time before the end of the three years.

(9) <u>Authorized Designated Representative</u>.

(a) <u>Assigning an Authorized Designated Representative</u>. The owner and operator of an electricity generating facility shall authorize one designated representative to act on behalf of the owner and operator with regard to all matters under 310 CMR 7.74.

(b) <u>Responsibilities of Designated Representative</u>. The designated representative shall be responsible for submitting and updating electronically all of the following:

1. The name, address, email address, and telephone number of the designated representative;

- 2. A list of the owner(s) and operator(s) of the electricity generating facility;
- 3. A notice of transfer of allowances;
- 4. A CO_2 emissions report;
- 5. The Compliance Certification Report;
- 6. The name, address, email address, and telephone number of any persons authorized to submit notices of transfer of allowances pursuant to 310 CMR 7.74(9)(c); and
- 7. Any other reports, documents, or information requested by the Department.

(c) <u>Delegation by Designated Representative</u>. A designated representative may delegate his or her authority to submit a notice of transfer of allowances by submitting the information specified in 310 CMR 7.74(9)(b)6. and signing the following certification statement: "I certify any notice of transfer of allowances submitted by any person identified by me as authorized to submit a notice of transfer of allowances under 310 CMR 7.74 shall be deemed a notice of transfer of allowances submitted by me."

(d) <u>Certification of Representation</u>. The owner or operator of an electricity generating facility shall submit to the Department a complete certificate of representation that identifies the designated representative acting on behalf of the owner and operator for the electricity generating facility. The submission shall be on a form prescribed by the Department, and shall include the following information:

1. Identification of the electricity generating facility;

2. The name of the designated representative;

3. The address, email address, and telephone number of the designated representative at the time of submission of the Certificate of Representation;

4. A list of the owner(s) and operator(s) of the electricity generating facility at the time of submission of the Certificate of Representation;

5. The following certification statements by the designated representative.

a. "I certify I was selected as the designated representative, by an agreement binding on the owner and operator of the facility."

b. "I certify that I have all the necessary authority to carry out my duties and responsibilities under 310 CMR 7.74 on behalf of the owner and operator of the facility and that the owner and operator shall be fully bound by my representations, action, inactions, or submissions";

6. The signature of the designated representative and the date signed; and

7. If applicable, a list of persons authorized to submit Notices of Transfer of allowances pursuant to 310 CMR 7.74(9)(c) at the time of submission of the Certificate of Representation, and the following:

a. The name, address, email address, and telephone number of such persons.

b. The following certification statement by the designated representative. "I certify any notice of transfer of allowances submitted by any person identified by me as authorized to submit a notice of transfer of allowances under 310 CMR 7.74 shall be deemed a notice of transfer of allowances submitted by me."

(10) <u>Penalties and Enforcement</u>.

(a) The failure of an owner or operator to offset its CO_2 emissions limit in compliance with 310 CMR 7.74(6)(e) shall be deemed a release of air pollutants into the environment without the approval or authorization of the Department and shall be presumed to constitute a significant impact to public health, welfare, safety, or the environment.

(b) If the owner or operator of an electricity generating facility is not holding sufficient allowances in its allowance registry account by March 1st of each year to offset its CO_2 emissions as calculated in accordance with the requirements of 310 CMR 7.74(6)(e), then within 14 calendar days of receipt of notice by the Department, the owner or operator shall transfer into the electricity generating facility's allowance registry account, three additional allowances for every one ton of CO_2 emissions not offset, and then the Department will deduct the allowances from the allowance registry account.

(c) In addition to the requirements of 310 CMR 7.74(10)(a) and (b), the Department may enforce the requirements of 310 CMR 7.74 in accordance with applicable federal and Massachusetts law including, but not limited to, M.G.L. c. 21A, § 16, and 310 CMR 5.00: *Administrative Penalty*; M.G.L. c. 111, § 2C; M.G.L. c. 111, §§ 142A through 142E and M.G.L. c. 21N, § 7(d).

(11) <u>Program Review</u>. Not later than December 31, 2021 and every ten years thereafter, the Department shall complete a review, including an opportunity for public comment, of the requirements of 310 CMR 7.74 to determine whether the program should be amended. This review shall evaluate CO_2 emissions, costs, consistency with statewide CO_2 emissions limits established pursuant to M.G.L. c. 21N, and any other information relevant to review of the program.

(12) <u>Declining CO₂ Emissions Limits in Existing Plan Approvals</u>. The requirements in 310 CMR 7.74 supersede the declining annual GHG or CO₂ emissions limits in an electricity generating facility's plan approval issued pursuant to 310 CMR 7.02. All other terms and conditions of such plan approval remain in effect unless a modification of such plan approval is issued by the Department in accordance with 310 CMR 7.02.

(13) <u>Compliance with All Applicable Requirements</u>. An owner or operator of an electricity generating facility subject to 310 CMR 7.74 shall comply with all other state and federal applicable statutes and regulations.

(14) <u>Owner and Operator Responsible for Compliance</u>. Whenever any provision in 310 CMR 7.74 requires an action to be taken by an owner or operator, any owner or operator of an electricity generating facility may take the action; provided that all owners and operators of the electricity generating facility are responsible for ensuring that the proper action is taken, and all owners and operators are jointly and severally liable for compliance with 310 CMR 7.74.

7.75: Clean Energy Standard

(1) Purpose, Authority and Scope. The purpose of 310 CMR 7.75, promulgated in conjunction with 310 CMR 7.74, is to assist the Commonwealth in achieving the greenhouse gas emissions reduction goals adopted pursuant to M.G.L. c. 21N, § 3(b), by establishing a clean energy standard (CES) that will increase the level of clean electricity that is purchased from the regional electric grid for consumption in Massachusetts. To achieve those goals, the Executive Office of Energy and Environmental Affairs (EEA) and the Department, pursuant to M.G.L. c. 21A, §§ 2 and 8 and M.G.L. c. 21N, hereby jointly promulgate 310 CMR 7.75 following consultation with the Department of Energy Resources (DOER) and based on the considerations specified in M.G.L. c. 21N, § 3(c). In exercising their broad authority and discretion under M.G.L. c. 21N, § 3(c), EEA and the Department have determined that establishing the CES, along with the Commonwealth's other climate programs and policies, will ensure achievement of the greenhouse gas emissions limits as established under M.G.L. c. 21N, and that the 310 CMR 7.75 levels are consistent with, and take account of, regional programs such as the Regional Greenhouse Gas Initiative (RGGI) and the Renewable Portfolio Standard (RPS). The Department is also consolidating in 310 CMR 7.75 a requirement previously codified at 310 CMR 7.71(9) for retail sellers of electricity to report statewide greenhouse gas emissions and to monitor and ensure compliance with the reporting provisions of M.G.L. c. 21N, § 2(a)(5). 310 CMR 7.75 is also promulgated pursuant to M.G.L. c. 21A, § 16 and M.G.L. c. 111, §§ 2C and 142A through 142E.

(2) <u>Definitions</u>. The terms used in 310 CMR 7.75 are defined in 310 CMR 7.75(2) and 310 CMR 7.00: *Definitions*. Where a term is defined in both 310 CMR 7.00: *Definitions* and 310 CMR 7.75, the definition in 310 CMR 7.75 shall apply.

<u>Biogenic Greenhouse Gas Emissions</u>. Emissions of carbon dioxide that result from the combustion of biogenic (plant or animal) material, excluding fossil fuels.

Business Day. Means Monday through Friday, exclusive of state and federal legal holidays.

<u>Carbon Dioxide Equivalent</u>. Means the amount of carbon dioxide by weight that would produce the same amount of global warming impact as a given weight of another greenhouse gas.

<u>Certificates Obligation</u>. Means a term defined in the NEPOOL GIS operating rules at Rule 4.1(b).

<u>CES Alternative Compliance Credit</u>. Means a credit obtained by a retail seller of electricity upon making a CES alternative compliance payment. Such credit is used to document compliance with 310 CMR 7.75(4)(a). One unit of credit shall be equivalent to one clean generation attribute.

<u>CES-E Alternative Compliance Credit</u>. Means a credit obtained by a retail seller of electricity upon making a CES-E alternative compliance payment. Such credit is used to document compliance with 310 CMR 7.75(4)(b). One unit of credit shall be equivalent to one clean existing generation attribute.

<u>CES Alternative Compliance Payment (CES ACP)</u>. Means a payment of a certain dollar amount per MWh, resulting in the issuance of CES alternative compliance credits, which a retail seller of electricity may submit to the Department in *lieu* of providing clean generation attributes required under 310 CMR 7.75(4)(a).

<u>CES-E Alternative Compliance Payment (CES-E ACP)</u>. Means a payment of a certain dollar amount per MWh, resulting in the issuance of CES-E alternative compliance credits, which a retail seller of electricity may submit to the Department in *lieu* of providing clean existing generation attributes required under 310 CMR 7.75(4)(b).

<u>CES Statement of Qualification</u>. Means a written document from the Department that qualifies a generation unit as a clean generation unit, or that qualifies a portion of the annual electrical energy output of a generation unit as clean generation.

<u>CES-E Statement of Qualification</u>. Means a written document from the Department that qualifies a generation unit as a clean existing generation unit, or that qualifies a portion of the annual electrical energy output of a generation unit as clean existing generation.

<u>Clean Existing Generation</u>. Means the electrical energy output, or that portion of the electrical energy output, excluding any electrical energy utilized for parasitic load of a clean existing generation unit, that qualifies under:

(a) the special provisions for a generation unit located in a control area adjacent to the ISO-NE control area, pursuant to 310 CMR 7.75(7)(b); or

(b) the special provisions for clean existing generation units, pursuant to 310 CMR 7.75(7)(c); or

(c) any other applicable provision of 310 CMR 7.75.

<u>Clean Existing Generation Attribute</u>. Means a generation attribute of the electrical energy output of a specific clean existing generation unit that derives from the unit's production of clean existing generation.

Clean Existing Generation Unit. Means a nuclear or hydroelectric generation unit that:

(a) is located in Massachusetts, or in a jurisdiction that exported at least 4,000,000 MWh of electricity to Massachusetts in at least two years from 2001 through 2016, on a net annual basis, as reflected in the state greenhouse gas emissions inventories published annually by the Department;

- (b) has a nameplate capacity greater than 30 megawatts; and
- (c) commenced commercial operation before January 1, 2011.

<u>Clean Generation</u>. Means the electrical energy output, or that portion of the electrical energy output, excluding any electrical energy utilized for parasitic load of a clean generation unit, that qualifies under:

(a) the special provisions for a generation unit located in a control area adjacent to the ISO-NE control area, pursuant to 310 CMR 7.75(7)(b); or

(b) any other applicable provision of 310 CMR 7.75 or 225 CMR 14.00: *Renewable Energy Portfolio Standard - Class I.*

Clean Generation Attribute. Means the generation attribute that is either:

(a) a generation attribute of the electrical energy output of a specific clean generation unit that derives from the unit's production of clean generation; or

(b) any other generation attribute that is retained pursuant to St. 2008, c. 169, § 83D(h), as inserted by St. 2016, c. 188, § 12. All generation attributes retained pursuant to St. 2008, c. 169, § 83D(h), as inserted by St. 2016, c. 188, § 12, including such generation attributes that derive from generation units that do not satisfy all limitations in 310 CMR 7.75(7), are clean generation attributes.

<u>Clean Generation Unit</u>. Means a generation unit or aggregation that has received a CES statement of qualification from the Department, or that has received an RPS statement of qualification from DOER.

<u>Commercial Operation Date</u>. Means the date that a generation unit first produces electrical energy for sale within the ISO-NE control area or within an adjacent control area. In the case of transmission capacity that is used to transmit clean energy, the date on which the transmission capacity first transmitted energy into the ISO-NE control area or an adjacent control area.

<u>Compliance Filing</u>. Means a document filed annually by a retail seller of electricity in a format determined by the Department documenting compliance with 310 CMR 7.75(4), submitted no later than July 1st, or the first business day thereafter, of the subsequent compliance year.

<u>Compliance Year</u>. Means a calendar year beginning January 1st and ending December 31st, for which a retail seller of electricity that is not an Municipal Electric Department or Municipal Light Board must demonstrate that it has met the requirements of 310 CMR 7.75(4) and (5).

7.75: continued

<u>Control Area</u>. Means a geographic region in which a common generation control system is used to maintain scheduled interchange of electrical energy within and without the region.

<u>Dedicated Transmission Line</u>. Mmeans a transmission line with a commercial operation date after December 31, 2017 that is not electrically connected to any generation unit that is not a clean generation unit.

<u>Emitting Electricity Generators</u>. Means electricity generators that are powered by any fossil or biogenic fuels.

<u>Emitting Megawatt Hours</u>. Means megawatt hours that are generated by emitting electricity generators.

<u>End-use Customer</u>. Means a person or entity in Massachusetts that purchases electrical energy at retail from a retail seller of electricity, except that a generation unit taking station service at wholesale from ISO-NE or self-supplying from its owner's other generating stations, shall not be considered an end-use customer.

<u>Generation Attribute</u>. Means a non-price characteristic of the electrical energy output of a generation unit including, but not limited to, the generation unit's fuel type, emissions, vintage and eligibility for renewable or clean energy programs.

Generation Unit. A facility that converts a fuel or an energy resource into electrical energy.

<u>GIS Certificate</u>. Means an electronic record produced by the NEPOOL GIS that identifies generation attributes of each MWh accounted for in the NEPOOL GIS.

<u>Greenhouse Gas</u>. Means any chemical or physical substance that is emitted into the air and that the Department may reasonably anticipate will cause or contribute to climate change including, but not limited to, carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons and sulfur hexafluoride.

<u>ISO-NE</u>. ISO New England Inc., the independent system operator for New England, the regional transmission organization for most of New England, which is authorized by the Federal Energy Regulatory Commission (FERC) to exercise for the New England Control Area the functions required pursuant to the FERC's Order No. 2000 and the FERC's corresponding regulations.

<u>ISO-NE Settlement Market System</u>. The ISO-NE's electronic database system into which all real-time load and generation data are entered and from which such data are provided to the NEPOOL GIS.

<u>Lifecycle Greenhouse Gas Emissions.</u> The aggregate quantity of greenhouse gas emissions including, but not limited to, direct emissions and significant emissions from land use changes, and temporal changes in forest carbon sequestration and emissions resulting from biomass harvests, regrowth, and avoided decomposition as determined by the department, related to the full fuel lifecycle, including all stages of fuel and feedstock production and distribution, from feedstock generation or extraction through the distribution and delivery of the finished fuel to the ultimate consumer, where the mass values for all greenhouse gases are adjusted to account for their relative global warming potential.

<u>Massachusetts Department of Energy Resources or DOER</u>. The Massachusetts agency established pursuant to M.G.L. c. 25A, §§ 1 through 13.

<u>Megawatt-hour (MWh)</u>. A unit of electrical energy or work equivalent to one million watts of power operating for one hour.

7.75: continued

<u>Municipal Electric Department (MED)</u>. A municipal electric department as defined in M.G.L. c. 164A, § 1.

<u>Municipal Light Board (MLB)</u>. Means a municipal light board as defined in M.G.L. c. 164A, \S 1.

<u>NEPOOL GIS</u>. The NEPOOL Generation Information System, which includes a generation information database and certificate system, operated by the New England Power Pool (NEPOOL), its designee or successor entity, that accounts for generation attributes of electrical energy consumed and generated within, imported into, or exported from the ISO-NE control area.

<u>NERC Tag</u>. A document that identifies an electrical energy interchange transaction and its associated participants, assigned in accordance with rules set forth by the North American Electric Reliability Corporation (NERC), a nonprofit corporation granted by the FERC the legal authority to enforce mandatory reliability standards for the U.S. bulk power system, subject to FERC oversight.

<u>Non-emitting Electricity Generators</u>. Electricity generators powered by hydro, nuclear, ocean, solar or wind power.

<u>Non-emitting Megawatt Hours</u>. Megawatt hours that are generated by non-emitting electricity generators.

<u>Operator</u>. Any person or entity that has charge or control of a generation unit subject to 310 CMR 7.75(7) through (9) including, without limitation, a duly authorized agent or lessee of the owner, or a duly authorized independent contractor.

<u>Owner</u>. Any person or entity that, alone or in conjunction with others, has legal ownership, a leasehold interest, or effective control over the real property or property interest upon which a generation unit is located, or the airspace above said real property including, without limitation, a duly authorized agent of the owner. For the purposes of 310 CMR 7.75, owner does not mean a person or entity holding legal title or security interest solely for the purpose of providing financing.

<u>Retail Electricity Product</u>. Electrical energy offering that is distinguished by its generation attributes and that is offered for sale by a retail seller of electricity to end-use customers.

<u>Retail Seller of Electricity or Retail Seller</u>. A competitive supplier licensed by the Department of Public Utilities or, as each is defined in M.G.L. c. 164A, § 1, an electric utility, municipal electric department or municipal light board that is connected to the regional electric grid.

<u>RPS Alternative Compliance Credit</u>. A credit obtained by a retail seller of electricity upon making a payment pursuant to 225 CMR 14.08(3): *Alternative Compliance*, and used to comply with 225 CMR 14.07: *Renewable Energy Portfolio Standard - Class I*.

<u>RPS Class I Renewable Generation Unit</u>. A generation unit or aggregation that has received a statement of qualification as an RPS Class I renewable generation unit from DOER pursuant to 225 CMR 14.00: *Renewable Energy Portfolio Standard - Class I*.

<u>RPS Statement of Qualification</u>. A written document issued by DOER pursuant to 225 CMR 14.06: *Qualification Process for RPS Class I, Solar Carve-out Renewable Generation Units, and Solar Carve-out II Renewable Generation Units* that qualifies a generation unit or aggregation as an RPS Class I qualified generation unit, or that qualifies a portion of the annual electrical energy output of a generation unit.

Short Ton. 2000 pounds or 0.9072 metric tons.

(3) <u>Applicability</u>. Retail sellers are required to comply with 310 CMR 7.75.

(4) <u>Clean Energy Standard and CES-E Standard</u>. The total annual sales of each retail electricity product sold to Massachusetts end-use customers by a retail seller that is not an MED or MLB shall include a minimum percentage of electrical energy sales with clean generation attributes and clean existing generation attributes.

(a) For calendar years 2018 through 2050, percentage requirements for clean generation attributes are listed in 310 CMR 7.75(4): *Table A*.

	Table A
Year	Retail Sellers, except Municipal Electric Departments and Municipal Light Boards
2018	16%
2019	18%
2020	20%
2021	22%
2022	24%
2023	26%
2024	28%
2025	30%
2026	36%
2027	42%
2028	48%
2029	54%
2030	60%
2031	61%
2032	62%
2033	63%
2034	64%
2035	65%
2036	66%
2037	67%
2038	68%
2039	69%
2040	70%
2041	71%
2042	72%
2043	73%
2044	74%
2045	75%

Table A

Table A (continued)		
Year	Retail Sellers, except Municipal Electric Departments and Municipal Light Boards	
2046	76%	
2047	77%	
2048	78%	
2049	79%	
2050, and each year thereafter	80%	

(b) <u>Clean Energy Standard for Clean Existing Generation Units (CES-E)</u>. For calendar year 2021 and 2022, the percentage requirement for clean existing generation attributes shall be 25%. For calendar years 2023 through 2050, percentage requirements for clean existing generation attributes shall be determined by dividing 20% by the percentage provided by the Department pursuant to 310 CMR 7.75(9)(b)4. for the year four years before the calendar year for which the percentage requirement applies, rounded to the nearest percent (*i.e.*, if the percentage requirement for clean existing generation attributes in 2030 would be $25\% \div 105\% = 24\%$).

(5) Compliance Procedures for Retail Sellers That Are Not MEDs or MLBs.

(a) <u>Standard Compliance</u>. Each retail seller subject to 310 CMR 7.75(4) shall be deemed to be in compliance with 310 CMR 7.75 if the information provided in the compliance filing submitted pursuant to 310 CMR 7.75(5) is true and accurate and demonstrates compliance with 310 CMR 7.75(4). Such retail seller shall demonstrate, using a form provided by the Department or DOER, that clean generation attributes and clean existing generation attributes used for compliance have not otherwise been, nor will be, sold, retired, claimed, used or represented, as part of electrical energy output or sales, or used to satisfy obligations in jurisdictions other than Massachusetts.

(b) Banked Compliance.

1. Beginning in 2021, a retail seller subject to 310 CMR 7.75(4)(a) may use clean generation attributes produced in either or both of the two prior compliance years, subject to the limitations in 310 CMR 7.75(5)(b) and provided that the retail seller is in compliance with 310 CMR 7.75 for all previous compliance years. In addition, the retail seller shall demonstrate, using a form provided by the Department or DOER, that such attributes:

a. Were in excess of the clean generation attributes needed for compliance in the compliance year in which they were generated, and that such excess attributes have not previously been used for compliance with 310 CMR 7.75 or 225 CMR 14.00;

b. Do not exceed 30% of the clean generation attributes needed by the retail seller for compliance with 310 CMR 7.75(4)(a) in the year they were generated, in excess of the clean generation attributes needed for the compliance with 225 CMR 14.07(1), subject to 310 CMR 7.75(5)(b)1.d.;

c. Were produced during the compliance year in which they are claimed as excess by the generation of electrical energy sold to end-use customers in the ISO-NE control area; and

d. Have not otherwise been, nor will be, sold, retired, claimed or represented as part of electrical energy output or sales, or used to satisfy obligations in jurisdictions other than Massachusetts.

2. Any RPS-eligible renewable generation attributes claimed for compliance with RPS pursuant to 225 CMR 14.08(2): *Banked Compliance* and used to comply with 225 CMR 14.07: *Renewable Energy Portfolio Standard - Class I* in a particular year shall be counted toward compliance with 310 CMR 7.75 in that year.

3. A retail seller subject to 310 CMR 7.75(4)(b) may not use clean existing generation attributes produced in prior compliance years to comply with said provision.

(c) <u>Alternative Compliance</u>. Any RPS alternative compliance credits claimed pursuant to 225 CMR 14.08(3)(a) and used to comply with 225 CMR 14.07: *Renewable Energy Portfolio Standard - Class I* shall be counted toward compliance with 310 CMR 7.75(4)(a). A retail seller subject to 310 CMR 7.75(4) may discharge its obligations under 310 CMR 7.75(4)(a), in whole or in part, by making a CES ACP to the Department. A retail seller subject to 310 CMR 7.75(4) may discharge its obligations under 310 CMR 7.75(4)(b), in whole or in part, by making a CES-E ACP to the Department. Such funds shall be deposited in a segregated account, which may be the same account established to receive auction proceeds under 310 CMR 7.74(6)(h)1.a.i., administered by a Trustee appointed by EEA and the Department, and used for the purposes set forth in 310 CMR 7.75(5)(c)2.

1. <u>Alternative Compliance Procedures</u>.

a. <u>Procedures for CES ACP</u>. A retail seller subject to 310 CMR 7.75(4) shall receive CES alternative compliance credits from the Department, subject to the following:

i. The quantity of credits, specified in MWh, that can be applied to its obligations under 310 CMR 7.75(4)(a) shall be determined by calculating the ratio of the total of CES ACPs paid for the compliance year to the CES ACP rate for that compliance year.

ii. The CES ACP rate in dollars shall be 0.75 times the rate calculated annually by DOER pursuant to 225 CMR 14.08(3)(a)2 for years 2018 through 2020, 0.50 times the rate calculated annually by DOER pursuant to 225 CMR 14.08(3)(a)2. for year 2021, and \$35/Mwh for years 2022 through 2050.

b. <u>Procedures for CES-E ACP</u>. A retail seller subject to 310 CMR 7.75(4) shall receive CES-E alternative compliance credits from the Department subject to the following:

i. The quantity of credits, specified in MWh, that can be applied to its obligations under 310 CMR 7.75(4)(b) shall be determined by calculating the ratio of the total of CES-E ACPs paid for the compliance year to the CES-E ACP rate for that compliance year.

ii. The CES-E ACP rate in dollars shall be 0.10 times the rate specified by DOER pursuant to 225 CMR 14.08(3)(a)2. for year 2021, and \$ 10/Mwh for years 2022 through 2050.

2. <u>Use of Funds</u>. Funds deposited pursuant to 310 CMR 7.75(5)(c) shall be expended to further the goals of M.G.L. c. 21N by supporting:

a. programs and projects to reduce greenhouse gas emissions to mitigate the impacts of climate change including, but not limited to, clean energy and vehicle electrification projects;

b. programs or projects to support adaptation to the impacts of climate change;
c. mitigation or adaptation programs or projects involving communities that are already adversely impacted by air pollution including, but not limited to, environmental justice communities;

d. and for the administration of any such programs or projects. Such funds may also be used for the administration of 310 CMR 7.75. Such funds shall be expended at the direction of the Trustee, in consultation with EEA and the Department. The Trustee, EEA and the Department may consult with and enter into agreements with other agencies within the Energy and Environmental Affairs Secretariat to assist in the administration and expenditure of such funds.

(d) <u>Treatment of Existing Contracts Executed as of August 11, 2017</u>. Notwithstanding 310 CMR 7.75(4), in determining the total CES-qualified MWh applied to each retail seller subject to 310 CMR 7.75(4) in 2018 and 2019, the Department shall not include that portion of electrical energy sales that were subject to a contract executed or extended prior to August 11, 2017, provided that the electricity was sold at a price specified in the contract and the retail seller provides the Department with satisfactory documentation of the terms of such contracts. Contracted electrical energy delivered after December 31, 2019 shall be included in the CES, regardless of the contract's date of execution or extension.

1. In order to demonstrate eligibility of contracts for exemption under 310 CMR 7.75(5)(d), retail sellers shall provide the relevant documentation by December 31, 2017 in accordance with a form prescribed by the Department including, but not limited to, the execution and expiration dates of the contracts and the projected annual volume of electric energy supplied at a contract-specified price.

2. In order to demonstrate eligibility of electrical energy sales for exemption under 310 CMR 7.75(5)(d), retail sellers shall provide the relevant documentation by July 1st of the year after the sales occurred, along with information required in accordance with a form prescribed by the Department including, but not limited to, the execution and expiration dates of the contracts and the actual annual volume of electric energy supplied at a contract-specified price.

(e) <u>Treatment of Existing Contracts Executed as of October 4, 2019</u>. Notwithstanding 310 CMR 7.75(4), in determining the amount of CES E-qualified MWh applied to each retail seller subject to 310 CMR 7.75(4)(b) in 2021 and 2022, the Department shall not include that portion of electrical energy sales that were subject to a contract executed or extended prior to October 4, 2019, provided that the electricity was sold at a price specified in the contract and the retail seller provides the Department with satisfactory documentation of the terms of such contracts.

1. The adjustment to the retail electricity seller's compliance obligation pursuant to 310 CMR 7.75(4)(b) shall be equal to 20% of the amount of contracted electricity energy sales and shall apply to sales that occur in 2021 and 2022 only.

2. In order to demonstrate eligibility of electrical energy sales for exemption under 310 CMR 7.75(5)(e), retail sellers shall provide the relevant documentation by July 1st of the year after the year for which the retail seller has exempt electrical energy sales, along with information required in accordance with a form prescribed by the Department including, but not limited to, the execution and expiration dates of the contracts and the actual annual volume of electric energy supplied at a contract-specified price.

(6) Annual Compliance Filings for Retail Sellers That Are Not MEDs or MLBs.

(a) <u>Date of Annual Compliance Filing</u>. For each compliance year, each retail seller subject to 310 CMR 7.75(4) shall file an annual compliance filing with the Department no later than the first day of July, or the first business day thereafter, of the subsequent compliance year. Such retail sellers shall complete an annual compliance report for compliance years 2018 through 2050.

(b) <u>Contents of Annual Compliance Filing</u>. For each retail electricity product, the filing shall document compliance with the provisions of 310 CMR 7.75(4) and (5) using a form provided by the Department and shall include, but not be limited to, the following:

1. <u>Total Electrical Energy Sales to End-use Customers</u>. Documentation of the total MWh of electrical energy allocated by the retail seller to end-use customers in the compliance year. Such allocation is defined as the total quantity of such seller's certificates obligation that the seller correctly allocated or should have allocated to all of the seller's Massachusetts retail subaccounts in the NEPOOL GIS, in compliance with all relevant provisions of Part 4 of the NEPOOL GIS Operating Rules, as specified in the Guideline on the Determination of Sales to End-use Customers.

2. <u>Electrical Energy Sales to End-use Customers by Product</u>. Documentation of the total MWh of each retail electricity product allocated by the retail seller to end-use Massachusetts customers in the compliance year, verified by an independent third-party satisfactory to the Department. Such allocation is defined as the quantity of the seller's certificates obligation that the seller correctly allocated or should have allocated to each of the seller's Massachusetts retail subaccounts at the NEPOOL GIS, in compliance with all relevant provisions of Part 4 of the NEPOOL GIS Operating Rules, as specified in the Guideline on the Determination of Sales to End-use Customers.

3. <u>Attributes Allocated from the Compliance Year</u>. Documentation of the total MWh of each retail electricity product allocated by the retail seller to end-use Massachusetts customers that had clean generation attributes and clean existing generation attributes during the compliance year, as follows:

a. For electrical energy transactions included in the ISO-NE Settlement Market System, the compliance filings shall include documentation from the NEPOOL GIS administrator of the retail seller's ownership of GIS certificates representing clean generation attributes and clean existing generation attributes during the compliance year.

b. For electrical energy transactions not included in the ISO-NE Settlement Market System, but for which the retail seller has secured GIS certificates from the NEPOOL GIS, the compliance filings shall include documentation from the NEPOOL GIS of the retail seller's ownership of GIS Certificates representing clean generation attributes and clean existing generation attributes during the compliance year.

4. <u>Attributes Allocated from Banked Compliance</u>. Allocation by each retail seller, itemized by retail electricity product, of any quantity of clean generation attributes banked from one or both of the two previous years pursuant to 310 CMR 7.75(5)(b) that are used to demonstrate compliance with the clean energy standard in the current compliance year.

5. <u>Alternative Compliance Credits</u>. Allocation by each retail seller, itemized by retail electricity product, of any CES alternative compliance credits claimed pursuant to 310 CMR 7.75(5)(c)1.a., CES-E alternative compliance credits claimed pursuant to 310 CMR 7.75(5)(c)1.b., or RPS alternative compliance credits claimed pursuant to 225 CMR 14.08(3)(a): *RPS Class I Procedures*, along with a copy of any alternative compliance payment receipt(s).

6. <u>Attributes Banked for Future Compliance</u>. Identification of any quantity of clean generation attributes, that the retail seller anticipates claiming for purposes of banked compliance in subsequent years under the banked compliance provisions of 310 CMR 7.75(5)(b).

7. Attributes Retained Pursuant to St. 2008, c. 169, § 83D(h), as Inserted by St. 2016, c. 188, § 12. For the purpose of determining compliance with 310 CMR 7.75(4)(a), clean generation attributes that are retained by an electric utility pursuant to St. 2008, c. 169, § 83D(h), as inserted by St. 2016, c. 188, § 12, and that are not attributed to RPS Class I eligible resources, shall be assigned to all end use customers served by all retail sellers subject to 310 CMR 7.75(4)(a). The number of attributes assigned to each such retail seller's customers shall be based on the retail seller's proportion of the total retail electricity product sold statewide by all such retail sellers.

(7) <u>Eligibility Criteria for Clean Generation Units and Clean Existing Generation Units</u>.

(a) <u>Eligibility Criteria for Clean Generation Units</u>. A generation unit may qualify as a clean generation unit subject to the limitations in 310 CMR 7.75(7). The Department shall consider all limitations in 310 CMR 7.75(7), including the emissions criteria in 310 CMR 7.75(7)(a)1.a.ii., when considering whether to provide the owner or operator of such generation unit with a CES statement of qualification pursuant to 310 CMR 7.75(8)(c).

1. <u>Fuels, Energy Resources and Technologies</u>. In order to be considered by the Department for qualification, a generation unit must satisfy at least one of the two eligibility criteria in 310 CMR 7.75(7)(a)1.a. and not be excluded by 310 CMR 7.75(7)(a)1.b.

a. A generation unit must satisfy at least one of the following two eligibility criteria:
i. The generation unit has been issued an RPS statement of qualification as an RPS Class I renewable generation unit pursuant to 225 CMR 14.06(3): *Issuance or Non-issuance of a Statement of Qualification*;

ii. The generation unit has net lifecycle GHG emissions, over a 20-year life cycle, that yield at least a 50% reduction of greenhouse gas emissions per unit of useful energy relative to the lifecycle greenhouse gas emissions from the aggregate use of the operation of a new combined cycle natural gas electric generating facility using the most efficient commercially available technology as of the date of the statement of qualification application for the portion of electricity delivered by the generation unit;

b. A generation unit that does not satisfy applicable fuel, energy resource, or technology-specific provisions or limitations in 225 CMR 14.05(1)(a)5. through 7. shall not qualify under 310 CMR 7.75(7); provided, however, that any generation unit that is a hydroelectric generator that has a nameplate capacity greater than 30 megawatts may qualify under 310 CMR 7.75(7) if it satisfies the emissions criteria in 310 CMR 7.75(7)(a)1.a.ii.

2. <u>Commercial Operation Date</u>. For a generation unit that qualifies as a clean generation unit pursuant to 310 CMR 7.75(7)(a)1.a.ii., the commercial operation date shall be after December 31, 2010.

3. <u>Metering</u>. For a generation unit that qualifies as a clean generation unit pursuant to 310 CMR 7.75(7)(a)1., the electrical energy output from the generation unit shall be verified by the ISO-NE or by an independent verification system or person participating in the NEPOOL GIS accounting system as an independent Third Party Meter Reader, as defined in Rule 2.5(j) of the NEPOOL GIS Operating Rules, and approved by the Department.

(b) <u>Special Provisions for a Generation Unit Located in a Control Area Adjacent to the ISO-NE Control Area</u>. The portion of the total electrical energy output of a clean generation unit or clean existing generation unit located in a control area adjacent to the ISO-NE control area that qualifies as clean generation or clean existing generation shall meet the relevant requirements in Rule 2.7(c) and all other relevant sections of the NEPOOL GIS Operating Rules, and the requirements in 310 CMR 7.75(7)(b).

1. The generation unit owner or operator shall provide documentation, using a form provided by the Department or DOER, of a contract or other legally enforceable obligation, that is executed between the generation unit owner or operator and an electrical energy purchaser located in the ISO-NE control area for delivery of the generation unit's electrical energy to the ISO-NE control area. For a clean generation unit, such documentation shall include provisions for obtaining associated transmission rights for delivery of the generation unit's electrical energy from the generation unit to the ISO-NE control area using transmission capacity with a commercial operation date after December 31, 2016. For a clean existing generation unit, such documentation shall include provisions for obtaining associated transmission rights for delivery of the generation unit's electrical energy from the generation unit to the ISO-NE control area using transmission capacity that had a commercial operation date before January 1, 2017, and that directly connects the ISO-NE control area with a jurisdiction that exported at least 4,000,000 MWh of electricity to Massachusetts in at least two years from 2001 through 2016, on a net annual basis, as reflected in the state greenhouse gas emissions inventories published annually by the Department. If requested by the Department, the generation unit owner or operator shall pay for evaluation and verification of the provisions of such documentation by an independent party that is engaged or approved by the Department. The Department may rely on information in the NEPOOL GIS to address the requirements of 310 CMR 7.75(7)(b)1. instead of requiring separate documentation.

2. The generation unit owner or operator for a clean generation unit or clean existing generation unit shall provide documentation using a form provided by the Department or DOER, that:

a. The electrical energy delivered pursuant to the legal obligation was settled in the ISO-NE Settlement Market System;

b. The generation unit produced, during each hour of the applicable month, the amount of MWh claimed, as verified by the NEPOOL GIS administrator; if the originating control area employs a generation information system that is comparable to the NEPOOL GIS, information from that system may be used to support such documentation;

c. The electrical energy delivered under the legal obligation received a NERC tag confirming transmission from the adjacent control area to the ISO-NE control area using transmission capacity that meets the commercial obligation date and transmission path requirements specified in 310 CMR 7.75(7)(b)1.; and

d. The clean generation attributes or clean existing generation attributes have not otherwise been, nor will be, sold, retired, claimed, used or represented as part of electrical energy output or sales, or used to satisfy obligations in jurisdictions other than Massachusetts.

3. The generation unit owner or operator must provide an attestation in a form approved by the Department that it will not itself or through any affiliate or other contracted party, knowingly engage in the process of importing clean generation or clean existing generation into the ISO-NE control area for the creation of clean GIS certificates, and then exporting that energy or a similar quantity of other energy out of the ISO-NE control area during the same hour.

4. The quantity of electrical energy output from a clean generation unit or clean existing generation unit outside the ISO-NE control area that can qualify as clean generation or clean existing generation at the NEPOOL GIS during each hour is limited to the lesser of the clean generation or clean existing generation actually produced by the generation unit or the clean generation or clean existing generation actually scheduled and delivered into the ISO-NE control area.

5. For the purpose of determining compliance with 310 CMR 7.75(7)(b) and all other provisions of 310 CMR 7.75, a clean generation unit that delivers clean energy into the ISO-NE control area or an adjacent control area through a dedicated transmission line shall be considered to be located in the control area to which the clean energy is delivered.

(c) <u>Special Provisions for Clean Existing Generation Units</u>.

1. For any clean existing generation unit, the amount of electrical energy output that is clean existing generation in a given calendar year shall not exceed 2,500,000 MWh.

2. The amount of electrical output of a clean existing generation unit that qualifies as clean existing generation shall be the second lowest annual total amount of MWh that did not have attributes retired, claimed, used or represented, as part of electrical energy output or sales, or used to satisfy obligations in any jurisdiction other than Massachusetts in the years 2016 through 2018, as reflected in the NEPOOL-GIS.

3. Clean existing generation units must satisfy the requirements of 310 CMR 7.75(7)(a)3. and 4.

4. A generation unit that is not located in a jurisdiction that exported at least 4,000,000 MWh of electricity to Massachusetts in at least two years from 2001 through 2016 may qualify as a clean existing generation unit if it is located in a control area that is only electrically interconnected to control areas that are adjacent to the ISO-NE control area and satisfies all other requirements of 310 CMR 7.75.

5. For the purpose of determining compliance with 310 CMR 7.75 a clean existing generation unit located in a control area that is only electrically interconnected to control areas that are adjacent to the ISO-NE control area shall be considered to be located in an adjacent control area.

(8) <u>Qualification Process for Clean Generation Units and Clean Existing Generation Units</u>.

(a) <u>Statement of Qualification Application</u>. For clean generation units that have not received an RPS statement of qualification, a CES statement of qualification application shall be submitted to the Department by the owner or operator of the generation unit. For clean existing generation units, a CES-E statement of qualification application shall be submitted to the Department by the owner or operator of the generation unit. The applicant must use the most current forms and associated instructions provided by the Department, and must include all information, documentation, and assurances required by such forms and instructions.

(b) <u>Review Procedures</u>.

1. The Department shall notify the applicant when the CES statement of qualification application or CES-E statement of qualification application is administratively complete or if additional information is required pursuant to 310 CMR 7.75(8)(a).

2. The Department may, in its sole discretion, provide an opportunity for public comment on any CES statement of qualification application or CES-E statement of qualification application.

(c) <u>Issuance or Non-issuance of a Statement of Qualification</u>.

1. If the Department finds that all or a portion of the electrical energy output of a generation unit meets the requirements for eligibility as clean generation pursuant to 310 CMR 7.75(7)(a), and the generation unit is not eligible to receive an RPS statement of qualification from DOER, the Department shall provide the owner or operator of such generation unit with a CES statement of qualification.

2. If the Department finds that all or a portion of the electrical energy output of a generation unit is clean existing generation, the Department shall provide the owner or operator of such generation unit with a CES-E statement of qualification.

3. The CES statement of qualification or CES-E statement of qualifications shall include any applicable restrictions and conditions that the Department deems necessary to ensure compliance by a generation unit with the provisions of 310 CMR 7.75.

4. If the generation unit does not meet the requirements for eligibility as a clean generation unit or clean existing generation unit, the Department shall provide written notice to the Owner or Operator, including the Department's reasons for such finding.

(d) <u>Notification Requirements for Change in Eligibility Status</u>. The owner or operator of a clean generation unit or clean existing generation unit shall notify the Department of any changes in the technology, operation, emissions, fuel sources, energy resources, capacity commitment, or other characteristics of the generation unit that may affect the eligibility of the unit as a clean generation unit or clean existing generation unit. The owner or operator shall submit the notification to the Department no later than five days following the end of the month during which such changes were implemented. The notice shall state the date the changes were made to the generation unit and describe the changes in sufficient detail to enable the Department to determine if a change in eligibility is warranted.

(e) <u>Notification Requirements for Change in Ownership, Generation Capacity, or Contact</u> <u>Information</u>. The owner or operator of a clean generation unit or clean existing generation unit shall notify the Department of any changes in the ownership, operating entity, generation capacity, NEPOOL GIS account, independent verification system for the generation unit's electrical energy output, or contact information for the generation unit. The owner or operator shall submit the notification to the Department no later than five days following the end of the month during which such changes were implemented.

(f) <u>Time Limit for Project Implementation</u>. Any CES statement of qualification shall expire 48 months after the issuance date of the CES statement of qualification (the expiration date) unless the commercial operation date of the generation unit is on or before the expiration date. The Department may, at its discretion, grant an extension of the expiration date of the CES statement of qualification upon petition by the owner or operator of the generation unit. If the owner or operator of such generation unit desires an extension, such owner or operator must submit a new CES statement of qualification application, and the decision of the Department on such new application may be made in accordance with the regulations and criteria that are applicable on the date that the Department receives that application.

(g) <u>Suspension or Revocation of Statement of Qualification</u>. The Department may suspend or revoke a CES statement of qualification or CES-E statement of qualification if the owner or operator of a clean generation unit fails to comply with 310 CMR 7.75.

(h) <u>Identification of Clean Generation Units and Clean Existing Generation Units</u>. The Department shall inform the NEPOOL GIS administrator which generation units should be designated clean generation units and clean existing generation units pursuant to 310 CMR 7.75.

(9) <u>Reporting Requirements</u>.

(a) <u>Certification</u>. Any person required by 310 CMR 7.75 to submit documentation to the Department shall provide:

1. The person's name, title and business address;

2. The person's authority to certify and submit the documentation to the Department; and

3. The following certification: "I hereby certify, under the pains and penalties of perjury, that I have personally examined and am familiar with the information submitted herein and, based upon my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties, both civil and criminal, for submitting false information, including possible fines and imprisonment."

(b) <u>Annual Clean Energy Resource Report</u>. The Department shall produce and make available to the public an annual report that summarizes information submitted to the Department by retail sellers subject to 310 CMR 7.75(4) in the annual compliance filings submitted to the Department pursuant to 310 CMR 7.75(6)(b). Such report shall include non-confidential data that provides the following:

1. The extent to which the retail sellers complied with the minimum clean energy standard, both separately and combined;

2. The extent to which the retail sellers used standard compliance, banked compliance, and alternative compliance, in meeting the minimum standards; and

3. The names, locations, and types of clean generation and clean existing generation from which the retail sellers, as an aggregate, obtained the clean energy attributes used in meeting the minimum standards.

4. The total amount of electrical energy sales to end-use customers reported or should have reported pursuant to 310 CMR 7.75(6)(b)1., expressed in MWh and, beginning with the report for 2019, as a percentage of the total electrical energy sales to end use customers provided in the report for 2018.

(c) Greenhouse Gas Emissions Reporting.

1. Each retail seller shall report annually to the Department its MWh sold and associated greenhouse gas emissions. The first required reporting year for retail sellers which are new competitive suppliers is the first year after 2017 in which they sell electricity in Massachusetts. Biogenic and non-biogenic greenhouse gas emissions shall be reported separately. This report shall be on a form provided by the Department.

2. Deadlines.

a. Beginning with 2018 calendar year generation, retail sellers subject to 310 CMR 7.75(4) shall report the MWh required in 310 CMR 7.75(9)(c)4.a. through c. on a form provided by the Department no later than the first day of July after the calendar year in which the MWh were generated.

b. Beginning with 2018 calendar year emissions, the annual GHG emissions report shall be submitted no later than the 15^{th} day of the second September following each calendar year. The report shall be submitted using the final annual emission factors provided by the Department for the purpose of calculating greenhouse gas emissions pursuant to 310 CMR 7.75(9)(c)3.

c. In order to finalize the annual biogenic and non-biogenic emission factors, the Department shall:

i. post draft annual emission factors, including methodologies and data sources, on its website for public comment for 30 days and notify retail sellers of the posting and the deadline for submittal of public comment; and

ii. post final annual emission factors, including methodologies and data sources, on its website.

d. Beginning with 2018 calendar year generation, MEDs and MLBs choosing to report under 310 CMR 7.75(9)(c)5.b. and c. shall submit those reports on a form provided by the Department no later than the 15^{th} day of November after the calendar year in which the MWh were generated.

3. For the report required in 310 CMR 7.75(9)(c)2.b., all retail sellers shall use the following formula to calculate greenhouse gas emissions:

GHG = (EF * MWh / 2000 pounds per short ton) + emissions reported in 310 CMR 7.75(9)(c)6.

Where:

- GHG = Short tons of greenhouse gases (in carbon dioxide equivalents) associated with electricity sold in MA in a particular calendar year.
- EF = Emission factors supplied by the Department each year for biogenic and nonbiogenic greenhouse gas emissions (pounds carbon dioxide equivalents per MWh).
- MWh = Annual electricity consumed by customers in a particular calendar year, increased to account for the portion of electricity lost during transmission and distribution (line losses), as reported pursuant to 310 CMR 7.75(6)(b)1. or

310 CMR 7.75(9)(c)5.a., less the sum of certificates reported pursuant to 310 CMR 7.75(9)(c)4.b. and c. or MWh reported pursuant to 310 CMR 7.75(9)(c)5.b. and c.

4. <u>Source of Megawatt Hour and Emissions Data for Retail Sellers Subject to 310 CMR</u> 7.75(4).

a. In calculating biogenic and non-biogenic greenhouse gas emissions, retail sellers shall report the same number of MWh used to calculate any CES certificates obligation under 310 CMR 7.75(6)(b)1., inclusive of line losses.

b. Retail sellers shall report, by fuel and by state or province, the number of emitting and non-emitting MWh of electricity generated by emitting and non-emitting electricity generators represented by GIS renewable energy certificates or clean energy certificates retired in such seller's NEPOOL GIS Massachusetts Retail Subaccount, as defined in the NEPOOL GIS Operating Rules.

c. If the number of GIS certificates retired in a retail seller's NEPOOL GIS Massachusetts Retail Subaccount and reported pursuant to 310 CMR 7.75(9)(c)4.b. are greater than the MWh reported pursuant to 310 CMR 7.75(9)(c)4.a., the retail seller shall indicate, on the 310 CMR 7.75(9)(c)4.b. report, which certificates will be excluded from GHG reporting so that the number of certificates does not exceed the MWh reported.

5. <u>Source of Megawatt Hour and Emissions Data for Retail Sellers That Are MEDs or MLBs.</u>

a. In calculating biogenic and non-biogenic greenhouse gas emissions, MEDs and MLBs shall use the same number of MWh reported in the annual return to the Department of Public Utilities, inclusive of line losses.

b. <u>Optional MED and MLB Reporting of Non-emitting Electricity</u>. MEDs and MLBs may choose to subtract any MWh of electricity generated by non-emitting electricity generators from the amount of MWh reported in 310 CMR 7.75(9)(c)5.a., if such non-emitting MWh are reported in the annual report due under 310 CMR 7.75(9)(c)1., and provided the following criteria are met:

i. for MWh neither owned nor contracted for, a report is provided from NEPOOL GIS showing that such non-emitting 225 CMR 14.00- or 225 CMR 15.00-eligible certificates are retired in the MED's or MLB's NEPOOL GIS Massachusetts Retail Subaccount or are transferred to the Reserved Certificate account, as defined in the NEPOOL GIS Operating Rules, or

ii. for MWh owned or contracted for, the MED or MLB:

A. reports MWh by fuel and by state or province;

B. provides information from the NEPOOL GIS showing that the certificates associated with the non-emitting MWh of electricity were unsettled certificates whose attributes were aggregated in residual mix certificates, or are retired in the MED's or MLB's NEPOOL GIS Massachusetts Retail Subaccount or are transferred to the Reserved Certificate account, as defined in the NEPOOL GIS Operating Rules; and

C. for contracted generators, the MED or MLB provides a copy of the contract or contracts establishing that it has purchased electricity from such generators and reports such MWh.

c. <u>Optional MED and MLB Reporting of Emitting Electricity</u>. MEDs and MLBs may choose to report calculations of biogenic and non-biogenic greenhouse gas emissions, based on the methodology provided in 310 CMR 7.75(9)(c)6., if such emitting MWh are reported in the annual report due under 310 CMR 7.75(9)(c)1., and provided the following criteria are met:

i. for MWh neither owned nor contracted for, a report is provided from NEPOOL GIS showing that such emitting 225 CMR 14.00- or 225 CMR 15.00-eligible certificates are retired in the MED's or MLB's NEPOOL GIS Massachusetts Retail Subaccount, as defined in the NEPOOL GIS Operating Rules, or

ii. for MWh owned or contracted for, the MED or MLB:

A. reports MWh by fuel and by state or province;

B. provides information from the NEPOOL GIS showing that the certificates associated with the emitting MWh of electricity were unsettled certificates whose attributes were aggregated in residual mix certificates, or are retired or reserved in the MED's or MLB's NEPOOL GIS Massachusetts Retail Subaccount or are transferred to the Reserved Certificate account, as defined in the NEPOOL GIS Operating Rules; and

C. for contracted generators, the MED or MLB provides a copy of the contract or contracts establishing that the MED or MLB has purchased electricity from such generators.

d. The total of all optional non-emitting and emitting MWh reported under 310 CMR 7.75(9)(c)5.b. and c. shall not be greater than the MWh reported in 310 CMR 7.75(9)(c)5.a.

6. Carbon dioxide, methane and nitrous oxide emissions from any emitting electricity generator shall be reported as follows:

GHGi = (EFi * MWhi / 2000 pounds per short ton)

Where:

- GHGi = Short tons of greenhouse gases for each emitting fuel type i (in carbon dioxide equivalents) associated with electricity sold in MA in a particular calendar year.
- EFi = Emission factors supplied by the Department each year for biogenic and non-biogenic greenhouse gas emissions for each emitting fuel type i (pounds carbon dioxide equivalents per MWh).
- MWhi = as reported for fuel type i pursuant to 310 CMR 7.75(9)(c)4.b.

(d) The Department may specify the format and process by which any submission required pursuant to 310 CMR 7.75 shall occur, including electronic submission requirements. The Department may specify that certain submissions required pursuant to 310 CMR 7.75 be transmitted electronically to DOER, as the Department's agent instead of, or in addition to, the Department.

(10) Not later than December 31, 2017, the Department shall complete a review, including an opportunity for public comment, of options for including generators that meet all requirements of 310 CMR 7.75, except for the commercial operation date requirements in 310 CMR 7.75(7)(a)2. and (b)1., in the clean energy standard. This review shall also examine options for including annual standards for MEDs and MLBs in the clean energy standard.

(11) Not later than December 31, 2021, and every ten years thereafter, the Department shall complete a review, including an opportunity for public comment on the program review, of the requirements of 310 CMR 7.75 to determine whether the program should be amended. This review shall evaluate projected clean energy credit supply and costs, and any other information relevant to review of the program.

(12) Inspection and Record Retention.

(a) <u>Document Inspection</u>. The Department may audit the accuracy of all information submitted pursuant to 310 CMR 7.75. The Department may request and obtain from any owner, operator or authorized agent of a clean generation unit or clean existing generation unit, and from any retail seller, information that the Department determines necessary to monitor compliance with and enforcement of 310 CMR 7.75.

(b) <u>Audit and Site Inspection</u>. Upon reasonable notice to a retail seller or to a clean generation unit owner, operator or authorized agent, the Department may conduct audits, which may include inspection and copying of records and/or site visits to a clean energy generation unit or clean existing generation unit, or a retail seller's facilities including, but not limited to, all files and documents that the Department determines are related to compliance with 310 CMR 7.75.

(c) <u>Record Retention</u>. All documentation used to comply with any provision of 310 CMR 7.75 shall be retained for five years and provided to the Department electronically or in hard copy as requested by the Department.

(13) <u>Enforcement</u>.

(a) If a retail seller that is not an MED or MLB does not comply with the requirements of 310 CMR 7.75(4) and (5), then such retail seller shall be deemed to have caused air pollutant emissions releases to the environment without the approval or authorization of the department.

(b) The requirements of 310 CMR 7.75 shall be enforced in accordance with applicable federal and Massachusetts law including, but not limited to, the issuance of an administrative order or civil administrative penalties pursuant to M.G.L. c. 21A, § 16, 310 CMR 5.00: *Administrative Penalty*, M.G.L. c. 111, §§ 2C, 142A through 142E, and M.G.L. c. 21N, § 7(d).

7.76: Prohibitions on Use of Certain Hydrofluorocarbons in Refrigeration, Chillers, Aerosol Propellants, and Foam End-uses

(1) <u>Purpose</u>. The purposes of 310 CMR 7.76 are to prevent and control pollution to the atmosphere, as required by M.G.L. c. 111, §§ 142A and 142B, to support Massachusetts in achieving greenhouse gas emissions reductions goals established pursuant to M.G.L. c. 21N and to reduce hydrofluorocarbon emissions by adopting specific prohibitions for certain substances in refrigeration equipment, chillers, aerosol propellants, and foam end-uses.

(2) <u>Definitions</u>. The definitions in 310 CMR 7.76(2) apply to 310 CMR 7.76. Where a term defined in 310 CMR 7.70 also appears in 310 CMR 7.76, the definition in 310 CMR 7.76 is applicable for the purpose of 310 CMR 7.76.

<u>Aerosol Propellant</u>. A compressed gas or vapor in a container which, upon release of pressure and expansion through a valve, carries another substance from the container as a mist or spray.

<u>Air Conditioning Equipment</u>. Chillers, both centrifugal chillers and positive displacement chillers, intended for comfort cooling of occupied spaces.

<u>Capital Cost</u>. An expense incurred in the production of goods or in rendering services including, but not limited to, the cost of engineering, purchase, and installation of components or systems, and instrumentation, and contractor and construction fees.

<u>Centrifugal Chiller</u>. Air conditioning equipment that utilizes a centrifugal compressor in a vapor-compression refrigeration cycle. Under <u>Centrifugal Chiller</u>, a centrifugal chiller is a chiller intended for comfort cooling and does not include chillers used for industrial process cooling and refrigeration.

<u>Cold Storage Warehouse</u>. A cooled facility designed to store meat, produce, dairy products, and other products that are delivered to other locations for sale to consumers.

<u>Component</u>. A part of a refrigeration system, including but not limited to, a condensing unit, compressor, condenser, evaporator, and receiver; and all of its connections and subassemblies, without which the refrigeration system will not properly function or will be subject to failures.

<u>Cumulative Replacement</u>. All additions or changes in multiple components within a three-year period.

Effective Date of Prohibition. The date on which the prohibitions in 310 CMR 7.76(6) take effect.

<u>End-use</u>. Processes or classes of specific applications within industry sectors including, but not limited to, those listed in 310 CMR 7.76(6).

<u>Flexible Polyurethane</u>. A non-rigid polyurethane foam including, but not limited to, that used in furniture, bedding, and chair cushions.

<u>Foam</u>. A product with a cellular structure formed *via* a foaming process in a variety of materials that undergo hardening *via* a chemical reaction or phase transition.

<u>Foam Blowing Agent</u>. A substance that functions as a source of gas to generate bubbles or cells in the mixture during the formation of foam.

<u>Household Refrigerators and Freezers</u>. Refrigerators, refrigerator-freezers, freezers, and miscellaneous household refrigeration appliances intended for residential use. For the purposes of 310 CMR 7.76, <u>Household Refrigerators</u> and <u>Freezers</u> does not include <u>Household</u> <u>Refrigerators and Freezers – Compact</u>, or <u>Household Refrigerators and Freezers – Built-in</u>.

<u>Household Refrigerators and Freezers – Compact</u>. Any refrigerator, refrigerator-freezer or freezer intended for residential use with a total refrigerated volume of less than 7.75 cubic feet (220 liters).

<u>Household Refrigerators and Freezers – Built-in</u>. Any refrigerator, refrigerator-freezer or freezer intended for residential use with 7.75 cubic feet or greater total volume and 24 inches or less depth not including doors, handles, and custom front panels; with sides which are not finished and not designed to be visible after installation; and that is designed, intended, and marketed exclusively to be: installed totally encased by cabinetry or panels that are attached during installation; securely fastened to adjacent cabinetry, walls or floor; and equipped with an integral factory-finished face or to accept a custom front panel.

<u>Hydrofluorocarbon or HFC</u>. A class of greenhouse gases that are saturated organic compounds containing hydrogen, fluorine, and carbon.

Integral Skin Polyurethane. A self-skinning polyurethane foam including, but not limited to, that used in car steering wheels and dashboards.

<u>Metered Dose Inhaler, or Medical Dose Inhaler</u>, or <u>MDI</u>. A device that delivers a measured amount of medication as a mist that a patient can inhale, typically used for bronchodilation to treat symptoms of asthma, chronic obstructive pulmonary disease (COPD), chronic bronchitis, emphysema, and other respiratory illnesses. An MDI consists of a pressurized canister of medication in a case with a mouthpiece.

New means:

(a) products or equipment that are manufactured on or after the effective date of prohibition in 310 CMR 7.76(6): *Table 1*;

(b) products or equipment first assembled and installed for an intended purpose with new or used components on or after the effective date of prohibition in 310 CMR 7.76(6): *Table 1*;

(c) products or equipment to which components have been added to increase system capacity on or after the effective date of prohibition in 310 CMR 7.76(6): *Table 1*; or

(d) products or equipment replaced or cumulatively replaced such that the cumulative capital cost on or after the effective date of prohibition in 310 CMR 7.76(6): *Table 1* of replacement exceeds 50% of the capital cost of replacing the whole system.

<u>Person</u>. Any individual, firm, association, organization, manufacturer, distributor, partnership, trust, corporation, limited liability company, company, state, or local governmental agency or public district.

<u>Phenolic Insulation Board and Bunstock</u>. Phenolic insulation including but not limited to that used for roofing and walls. Bunstock is a large solid box-like structure formed during the production of polystyrene insulation.

<u>Polyolefin</u>. Foam sheets and tubes made of polyolefin, a macromolecule formed by the polymerization of olefin monomer units.

<u>Polystyrene Extruded Boardstock and Billet (XPS)</u>. A foam formed from polymers of styrene and produced on extruding machines in the form of continuous foam slabs which can be cut and shaped into panels used for roofing, walls, flooring, and pipes.

<u>Polystyrene Extruded Sheet</u>. Polystyrene foam including, but not limited to, that used for packaging and buoyancy or floatation. It is also made into food-service items including, but not limited to, hinged polystyrene containers (for "take-out" from restaurants); food trays (meat and poultry), plates, bowls, and retail egg containers.

<u>Polyurethane</u>. A polymer formed principally by the reaction of an isocyanate and a polyol.

<u>Positive Displacement Chiller</u>. Vapor compression cycle chillers that use positive displacement compressors, typically used for commercial comfort air conditioning. For the purpose of 310 CMR 7.76, <u>Positive Displacement Chiller</u> is a chiller intended for comfort cooling and does not include cooling for industrial process cooling and refrigeration.

<u>Refrigerant</u>. Any substance, including blends and mixtures, which is used for heat transfer purposes.

<u>Refrigerated Food Processing and Dispensing Equipment</u>. Retail food refrigeration equipment that is designed to process food and beverages that are intended for immediate or near-immediate consumption including, but not limited to, chilled and frozen beverages, ice cream, and whipped cream. For the purpose of 310 CMR 7.76, <u>Refrigerated Food Processing and Dispensing Equipment</u> does not include water coolers, or units designed solely to cool and dispense water.

<u>Refrigeration Equipment</u>. Any stationary device that is designed to contain and use refrigerant to establish or maintain colder than ambient temperatures in a confined space including, but not limited to, retail or commercial refrigeration equipment, household refrigerators and freezers, and cold storage warehouses.

<u>Remote Condensing Units</u>. Retail refrigeration equipment or units that have a central condensing portion and may consist of compressors, condensers, and receivers assembled into a single unit, which may be located external to the sales area. The condensing portion (and often other parts of the system) is located outside the space or area cooled by the evaporator. For example, <u>Remote Condensing Units</u> are commonly installed in convenience stores, specialty shops (*e.g.*, bakeries, butcher shops), supermarkets, restaurants, and other locations where food or other products are stored, served, or sold.

<u>Residential Use</u>. Use by a private individual of a substance, or a product containing the substance, in or around a permanent or temporary household, including use in both single and multi-unit dwellings, during recreation, or for any personal use or enjoyment. Use within a household for commercial or medical applications is not included in this definition, nor is use in automobiles, watercraft, or aircraft.

<u>Retail Food Refrigeration or Commercial Refrigeration</u>. Equipment designed to store and display chilled or frozen goods for commercial sale including, but not limited to, stand-alone units, refrigerated goods processing and dispensing equipment, remote condensing units, supermarket systems, and vending machines.

<u>Retrofit</u>. To convert an appliance from one refrigerant to another refrigerant. Retrofitting includes the conversion of the appliance to achieve system compatibility with the new refrigerant and may include, but is not limited to, changes in lubricants, gaskets, filters, driers, valves, o-rings or appliance components.

<u>Rigid Polyurethane and Polyisocyanurate Laminated Boardstock</u>. Laminated board insulation made with polyurethane or polyisocyanurate foam including, but not limited to, that used for roofing and walls.

<u>Rigid Polyurethane Appliance Foam</u>. Polyurethane insulation foam in domestic (*e.g.* residential) appliances.

<u>Rigid Polyurethane Commercial Refrigeration and Sandwich Panels</u>. Polyurethane foam, used to provide insulation in walls and doors including, but not limited to, that used for commercial refrigeration equipment and garage doors.

<u>Rigid Polyurethane High-pressure Two-component Spray Foam</u>. A liquid polyurethane foam system sold as two parts (*i.e.*, A-side and B-side) in non-pressurized containers; and is field or factory applied *in situ* using high-pressure proportioning pumps at 800-1600 pounds per square inch (psi) and an application gun to mix and dispense the chemical components.

<u>Rigid Polyurethane Low-pressure Two-component Spray Foam</u>. A liquid polyurethane foam system sold as two parts (*i.e.*, A-side and B-side) in containers that are pressurized to less than 250 psi during manufacture of the system for application without pumps; and are typically applied *in situ* relying upon a liquid blowing agent and/or gaseous foam blowing agent that also serves as a propellant.

<u>Rigid Polyurethane Marine Flotation Foam</u>. Buoyancy or flotation polyurethane foam used in boat and ship manufacturing for both structural and flotation purposes.

<u>Rigid Polyurethane One-component Foam Sealants</u>. A polyurethane foam generally packaged in aerosol cans that is applied *in situ* using a gaseous foam blowing agent that is also the propellant for the aerosol formulation.

<u>Rigid Polyurethane Slabstock and Other</u>. A rigid closed-cell polyurethane foam formed into slabstock insulation for panels and fabricated shapes for pipes and vessels.

<u>Stand-Alone Unit</u>. Retail refrigerators, freezers, and reach-in coolers (either open or with doors) where all refrigeration components are integrated and the refrigeration circuit is entirely brazed or welded. These systems are fully charged with refrigerant at the factory and typically require only an electricity supply to begin operation.

<u>Stand-alone Low-temperature Unit</u>. A stand-alone unit that maintains goods at temperatures at or below $32^{\circ}F(0^{\circ}C)$.

<u>Stand-alone Medium-temperature Unit</u>. A stand-alone unit that maintains goods at temperatures above $32^{\circ}F(0^{\circ}C)$.

<u>State</u> (when capitalized). The Commonwealth of Massachusetts for disclosure requirements in 310 CMR 7.76(5).

Substance. Any chemical intended for use in the end-uses listed in 310 CMR 7.76(6).

<u>Supermarket Systems</u>. Multiplex or centralized retail food refrigeration equipment systems designed to cool or refrigerate, which operate with racks of compressors installed in a machinery room and which includes both direct and indirect systems.

<u>Use</u>. Any utilization of any substance including, but not limited to, utilization in a manufacturing process or product in Massachusetts, consumption by the end-user in Massachusetts, or in intermediate applications in Massachusetts, such as formulation or packaging for other subsequent applications. For the purposes of 310 CMR 7.76, <u>Use</u> excludes residential use, but it does not exclude manufacturing for the purpose of residential use.

Vending Machines. A self-contained unit that dispenses goods that must be kept cold or frozen.

(3) <u>Applicability</u>. 310 CMR 7.76 applies to any person who sells, leases, rents, offers for sale, installs, uses, or manufactures, in Massachusetts, any product or equipment that uses or will use a prohibited substance in the end-uses listed in 310 CMR 7.76(6). 310 CMR 7.76 does not apply to any person in Massachusetts who uses for residential use any combination of a Household Refrigerator or Freezer, a Household Refrigerator or Freezer – Compact, or a Household Refrigerator or Freezer – Built-in.

(4) <u>Prohibitions</u>.

(a) No person may sell, lease, rent, offer for sale, install, use or manufacture, in Massachusetts, any product or equipment that uses or will use a prohibited substance in the end-uses listed in 310 CMR 7.76(6), unless an exemption is provided for the end-use in 310 CMR 7.76(7).

(b) Except where existing equipment is retrofitted, nothing in 310 CMR 7.76 requires a person that acquired a product or equipment containing a prohibited substance prior to an effective date of prohibition in 310 CMR 7.76(6): *Table 1* to cease use of that product or equipment.

(c) Products or equipment manufactured prior to the applicable effective date of the prohibitions in 310 CMR 7.76(6): *Table 1*, including foam systems not yet applied on site or new refrigeration equipment for which a facility has received a building permit prior to the effective date of prohibition, may be sold, leased, rented, imported, exported, distributed, installed, and used on or after the effective date of prohibition.

(5) <u>Disclosure Statement</u>. Except for the exemptions listed in 310 CMR 7.76(7): *Table 1*, as of the effective date of prohibition in 310 CMR 7.76(6): *Table 1*, any person who manufactures for sale in Massachusetts products or equipment in the air conditioning, refrigeration, foam, or aerosol propellant end-uses listed in 310 CMR 7.76(6), must provide a written disclosure or label to the buyer as follows.

(a) For motor-bearing refrigeration and air conditioning equipment that is neither factory-charged nor pre-charged with refrigerant, the required disclosure or label must state "This equipment is prohibited from using any substance on the "List of Prohibited Substances" for that specific end-use, in accordance with State regulations for hydrofluorocarbons."

(b) Except for products and equipment with existing labeling required by State building codes and safety standards which contain the information required in 310 CMR 7.76(5)(b)1. and 2., the disclosure or label for motor-bearing refrigeration and air conditioning equipment that are factory-charged or pre-charged with a hydrofluorocarbon or hydrofluorocarbon blend shall include:

1. The date of manufacture or a date code representing the date. If the manufacturer uses a date code for any product, the manufacturer shall file an explanation of each code with the Department; and

2. The refrigerant and foam blowing agent the product or equipment contains.

(c) Except for foam products with existing labeling required by State building codes and safety standards which contain the information required in 310 CMR 7.76(5)(c)1. and 2., the disclosure or label for foam products shall include one of the two alternatives in 310 CMR 7.76(5)(c)1. and 2.:

1. <u>Alternative 1</u>.

a. The date of manufacture or a date code representing the date. If the manufacturer uses a date code for any product, the manufacturer shall file an explanation of each code with the Department; and

b. The foam blowing agent the product contains, or a reference to a Safety Data Sheet (complying with 29 CFR 1910.1200 requirements), if the latter identifies the foam blowing agent the product contains.

2. Alternative 2. "Where sold, compliant with State HFC regulations."

(d) For aerosol propellants, the disclosure or label shall include one of the two alternatives in 310 CMR 7.76(5)(d)1. and 2.:

1. <u>Alternative 1</u>.

a. The date of manufacture or a date code representing the date, which is indicated on the label, lid, or bottom of the container. If the manufacturer uses a date code for any product, the manufacturer shall file an explanation of each code with the Department; and

b. The aerosol propellant the product contains, or availability of a Safety Data Sheet (complying with 29 CFR 1910.1200 requirements), if the latter identifies the propellant the product contains.

2. <u>Alternative 2.</u> "Where sold, compliant with State HFC regulations."

(6) <u>List of Prohibited Substances by End-use</u>. 310 CMR 7.76(6): *Table 1* lists prohibited substances in specific end-uses and the effective date of prohibition, unless an exemption is provided for the end-use in 310 CMR 7.76(7). The prohibitions do not apply to products and equipment in specific end-uses manufactured prior to an applicable effective date of prohibition.

Table 1:	End-use a	and Prohibited	Substances
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End-use	Prohibited Substances Effective Date of Prohib	
End-use Category: Aerosol Pro	pellants	
Aerosol Propellants	HFC-125, HFC-134a, HFC-227ea and blends of HFC-227ea and HFC 134a	January 1, 2021
End-Use Category: Air Conditi	oning	
Centrifugal chillers (new)	FOR12A, FOR12B, HFC-134a, HFC-227ea, HFC-236fa, HFC245fa, R-125/134a/600a (28.1/70/1.9), R-125/290/134a/ 600a(55.0/1.0/42.5/1.5), R-404A, R-407C, R-410A, R-410B, R-417A, R-421A, R-422B, R-422C, R-422D, R-423A, R-424A, R-434A, R438A, R-507A, RS-44 (2003 composition), THR-03	January 1, 2024
Positive displacement chillers (new)	FOR12A, FOR12B, HFC-134a, HFC-227ea, KDD6, R125/134a/ 600a (28.1/70/1.9), R-125/290/ 134a/600a (55.0/1.0/42.5/1.5), R-404A, R-407C, R-410A, R-410B, R-417A, R-421A, R-422B, R-422C, R-422D, R-424A, R-434A, R-437A, R438A, R-507A, RS-44 (2003 composition), SP34E, THR-03	January 1, 2024
End-use Category: Refrigeration	'n	
Cold storage warehouses (new)	HFC-227ea, R-125/290/134a/600a (55.0/1.0/42.5/1.5), R404A, R-407A, R-407B, R-410A, R-410B, R-417A, R-421A, R421B, R-422A, R-422B, R-422C, R-422D, R-423A, R-424A, R428A, R-434A, R-438A, R-507A, RS-44 (2003 composition)	January 1, 2023
Household refrigerators and freezers (new)	FOR12A, FOR12B, HFC-134a, KDD6, R-125/290/134a/600a (55.0/1.0/42.5/1.5), R- 404A, R-407C, R407F, R-410A, R-410B, R-417A, R-421A, R-421B, R-422A, R-422B, R-422C, R-422D, R-424A, R-426A, R-428A, R-434A, R-437A, R-438A, R-507A, RS24 (2002 formulation), RS 44 (2003 formulation), SP34E, THR-03	January 1, 2022

End-use	Prohibited Substances	Effective Date of Prohibition
Household refrigerators and freezers-compact (new)	FOR12A, FOR12B, HFC 134a, KDD6, R-125/290/134a/600a (55.0/1.0/42.5/1.5), R-404A, R-407C, R- 407F, R-410A, R-410B, R- 417A, R-421A, R- 421B, R-422A, R-422B, R-422C, R-422D, R424A, R-426A, R-428A, R-434A, R-437A, R-438A, R- 507A, RS24 (2002 formulation), RS 44 (2003 formulation), SP34E, THR-03	January 1, 2021
Household refrigerators and freezers-built in appliances (new)	FOR12A, FOR12B, HFC 134a, KDD6, R- 125/290/134a/600a (55.0/1.0/42.5/1.5), R- 404A, R-407C, R-407F, R-410A, R-410B, R-417A, R-421A, R-421B, R-422A, R-422B, R-422C, R-422D, R424A, R-426A, R-428A, R-434A, R-437A, R-438A, R-507A, RS24 (2002 formulation), RS-44 (2003 formulation), SP34E, THR-03	January 1, 2023
Supermarket Systems (Retrofit)	R-404A, R- 407B, R- 421B, R-422A, R-422C, R-422D, R428A, R-434A, R-507A	January 1, 2021
Supermarket Systems (New)	HFC-227ea, R-404A, R-407B, R-421B, R-422A, R-422C, R-422D, R-428A, R-434A, R-507A	January 1, 2021
Remote Condensing Units (Retrofit)	R-404A, R-407B, R-421B, R-422A, R-422C, R-422D, R-428A, R-434A, R-507A	January 1, 2021
Remote Condensing Units (New)	HFC-227ea, R-404A, R-407B, R 421B, R-422A, R-422C, R-422D, R-428A, R-434A, R-507A	January 1, 2021
Stand-alone Units (Retrofit)	R-404A, R-507A	January 1, 2021
Stand-alone Medium-temperature Units (New)	FOR12A, FOR12B, HFC-134a, HFC-227ea, KDD6, R-125/290/134a/600a (55.0/1.0/42.5/1.5), R-404A, R407A, R-407B, R-407C, R407F, R-410A, R-410B, R417A, R-421A, R-421B, R-422A, R-422B, R-422C, R422D, R-424A, R-426A, R-428A, R-434A, R-437A, R438A, R-507A, RS-24 (2002 formulation), RS-44 (2003 formulation), SP34E, THR-03	January 1, 2021

Table 1: End-use and Prohibited Substance	s (continued)
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End-use	Prohibited Substances	Effective Date of Prohibition
Stand-alone Low-temperature Units (New)	HFC-227ea, KDD6, R-125/290/134a/600a (55.0/1.0/42.5/1.5), R-404A, R-407A, R-407B, R-407C, R-407F, R-410A, R-410B, R-417A, R-421A, R-421B, R422A, R-422B, R-422C, R-422D, R-424A, R-428A, R434A, R-437A, R-438A, R-507A, RS-44 (2003 formulation)	January 1, 2021
Refrigerated food processing and dispensing equipment (New)	HFC-227ea, KDD6, R-125/290/ 134a/600a (55.0/1.0/42.5/1.5), R-404A, R-407A, R-407B, R-407C, R-407F, R-410A, R-410B, R417A, R-421A, R-421B, R-422A, R-422B, R-422C, R-422D, R424A, R-428A, R-434A, R-437A, R-438A, R-507A, RS-44 (2003 formulation)	January 1, 2021
Vending Machines (Retrofit)	R-404A, R-507A	January 1, 2021
Vending Machines (New)	FOR12A, FOR12B, HFC-134a, KDD6, R125/290/134a/600a (55.0/1.0/42.5/1.5), R-404A, R407C, R-410A, R-410B, R-417A, R-421A, R-422B, R422C, R-422D, R-426A, R-437A, R-438A, R-507A, RS-24 (2002 formulation), SP34E	January 1, 2022
End-use Category: Foams		
Rigid Polyurethane and Polyisocyanurate Laminated Boardstock	HFC-134a, HFC 245fa, HFC-365mfc, and blends thereof	January 1, 2021
Flexible Polyurethane	HFC-134a, HFC-245fa, HFC-365mfc, and blends thereof	January 1, 2021
Integral Skin Polyurethane	HFC-134a, HFC-245fa, HFC-365mfc, and blends thereof; Formacel TI, Formacel Z-6	January 1, 2021
Polystyrene Extruded Sheet	HFC-134a, HFC-245fa, HFC-365mfc, and blends thereof; Formacel TI, Formacel Z-6	January 1, 2021
Phenolic Insulation Board and Bunstock	HFC-143a, HFC-134a, HFC-245fa, HFC-365mfc, and blends thereof	January 1, 2021

7.76: continued

5/12/23 (Effective 11/11/22) - corrected

End-use	Prohibited Substances	Effective Date of Prohibition
Rigid Polyurethane Slabstock and Other	HFC-134a, HFC-245fa, HFC-365mfc and blends thereof; Formacel TI, Formacel Z-6	January 1, 2021
Rigid Polyurethane Appliance Foam	HFC-134a, HFC-245fa, HFC-365mfc and blends thereof; Formacel TI, Formacel Z-6	January 1, 2021
Rigid Polyurethane Commercial Refrigeration and Sandwich Panels	HFC-134a, HFC-245fa, HFC-365mfc and blends thereof; Formacel TI, Formacel Z-6	January 1, 2021
Polyolefin	HFC-134a, HFC-245fa, HFC-365mfc and blends thereof; Formacel TI, Formacel Z-6	January 1, 2021
Rigid Polyurethane Marine Flotation Foam	HFC-134a, HFC-245fa, HFC-365mfc and blends thereof; Formacel TI, Formacel Z-6	January 1, 2021
Polystyrene Extruded Boardstock and Billet (XPS)	HFC-134a, HFC-245fa, HFC-365mfc and blends thereof; Formacel TI, Formacel B, Formacel Z-6	July 1, 2021
Rigid polyurethane (PU) high-pressure two-component spray foam	HFC-134a, HFC-245fa, and blends thereof; blends of HFC365mfc with at least 4% HFC-245fa, and commercial blends of HFC-365mfc with 7% to 13% HFC-227ea and the remainder HFC-365mfc; Formacel TI	January 1, 2021
Rigid PU low-pressure two-component spray foam	HFC-134a, HFC-245fa, and blends thereof; blends of HFC365mfc with at least 4% HFC-245fa, and commercial blends of HFC-365mfc with 7% to 13% HFC-227ea and the remainder HFC-365mfc; Formacel TI	January 1, 2021
Rigid PU one-component foam sealants	HFC-134a, HFC-245fa, and blends thereof; blends of HFC365mfc with at least 4% percent HFC-245fa, and commercial blends of HFC-365mfc with 7% to 13% HFC-227ea and the remainder HFC-365mfc; Formacel TI	January 1, 2021

(7) <u>Exemptions</u>. 310 CMR 7.76(7): *Table 1* lists exemptions to the prohibited substances and end-uses in 310 CMR 7.76(6).

End-use Category	Prohibited Substances	Acceptable Uses
Aerosol Propellants	HFC-134a	Cleaning products for removal of grease, flux and other soils from electrical equipment; refrigerant flushes; products for sensitivity testing of smoke detectors; lubricants and freeze sprays for electrical equipment or electronics; sprays for aircraft maintenance; sprays containing corrosion preventive compounds used in the maintenance of aircraft, electrical equipment or electronics, or military equipment; sprays for aerospace manufacturing and rework operations; pesticides for use near electrical wires, in aircraft, in total release insecticide foggers, or in certified organic use pesticides for which EPA has specifically disallowed all other lower-GWP propellants; mold release agents and mold cleaners; lubricants and cleaners for spinnerettes for synthetic fabrics; duster sprays specifically for removal of dust from photographic negatives, semiconductor chips, specimens under electron microscopes, and energized electrical equipment; adhesives and sealants in large canisters; document preservation sprays; FDA-approved MDIs for medical purposes; wound care sprays; topical coolant sprays for pain relief; and products for removing bandage adhesives from skin.
Aerosol Propellants	HFC-227ea and blends of HFC-227ea and HFC 134a	FDA-approved MDIs for medical purposes.
Air Conditioning	HFC-134a	Military marine vessels where reasonable efforts have been made to ascertain that other alternatives are not technically feasible due to performance or safety requirements.
Air Conditioning	HFC-134a and R-404A	Human-rated spacecraft and related support equipment where reasonable efforts have been made to ascertain that other alternatives are not technically feasible due to performance or safety requirements.
Foams - Except Rigid polyurethane (PU) spray foam	All substances	Military applications where reasonable efforts have been made to ascertain that other alternatives are not technically feasible due to performance or safety requirements until January 1, 2022.
Foams - Except Rigid polyurethane (PU) spray foam	All substances	Space- and aeronautics-related applications where reasonable efforts have been made to ascertain that other alternatives are not technically feasible due to performance or safety requirements until January 1, 2025.

End-use Category	Prohibited Substances	Acceptable Uses
Rigid polyurethane (PU) two-component spray foam	All substances	Military or space- and aeronautics-related applications where reasonable efforts have been made to ascertain that other alternatives are not technically feasible due to performance or safety requirements until January 1, 2025.

(8) <u>Recordkeeping</u>. As of the effective date of prohibition for each end-use listed in 310 CMR 7.76(6): *Table 1*, any person who manufactures any product or equipment in the end-uses listed in 310 CMR 7.76(6), for sale or entry into commerce in Massachusetts must maintain for five years, and make available upon request by the Department, records sufficient to demonstrate that the product or equipment does not contain any substances listed in 310 CMR 7.76(6): *Table 1* as prohibited for that end-use or that the product is exempt in accordance with 310 CMR 7.76(7).

REGULATORY AUTHORITY

310 CMR 7.00: M.G.L. c. 111, § 142A through J.

310 CMR 7.00: APPENDIX A: EMISSION OFFSETS AND NONATTAINMENT REVIEW

(1) <u>Introduction.</u> 310 CMR 7.00: *Appendix A* sets forth the Massachusetts preconstruction review program for stationary sources of air pollution (not including indirect sources) pursuant to sections 172(c)(5) and 173 of the Clean Air Act. A new major source or major modification either that is located in an area designated as nonattainment pursuant to section 107(d) of the Act, published at 40 CFR 81, for any National Ambient Air Quality Standards (NAAQS) for which the source or modification would be major or that is major for volatile organic compounds or oxides of nitrogen must meet the stringent conditions set forth in this appendix prior to receiving approval to construct. These conditions are designed to insure that the increased emissions will be controlled to the greatest degree possible; that more than equivalent offsetting emission reductions (emission offsets) will be obtained from existing sources; and that there will be reasonable further progress toward achievement of the National Ambient Air Quality Standards (NAAQS).

(2) <u>Definitions</u>. The definitions found in 310 CMR 7.00 apply to 310 CMR 7.00: *Appendix A*. The following words and phrases shall have the following meanings as they appear in 310 CMR 7.00: *Appendix A*. Where a term is defined in 310 CMR 7.00 and the definition also appears in 310 CMR 7.00: *Appendix A*(2) the definition in 310 CMR 7.00: *Appendix A* controls.

Actual Emissions means:

(a) As of a particular date, actual emissions shall equal the average rate, in tons per year, at which the unit actually emitted the pollutant during a two-year period which precedes the particular date and which is representative of normal source operation. The Department shall allow the use of a different time period upon a determination that it is more representative of normal source operation. Actual emissions shall be calculated using the unit's actual operating hours, production rates, and types of materials processed, stored, or combusted during the selected time period. For the purposes of calculating a net emissions increase where actual emissions exceed allowable emissions, the actual emissions for the unit will be presumed to be equivalent to the source-specific allowable emissions of the unit.

(b) For either an electric utility steam generating unit (other than a new unit or the replacement of an existing unit) or an emissions unit(s) complying with 310 CMR 7.08(2), 7.18, 7.19, 7.24, or 7.34, actual emissions of the unit following the physical or operational change shall equal the representative actual annual emissions of the unit, provided the source owner or operator maintains and submits to the Department, on an annual basis for a period of five years from the date the unit resumes regular operation, information demonstrating that the physical or operational change did not result in an emissions increase. A longer period, not to exceed ten years, may be required by the Department if it determines such period to be more representative of normal source post-change operations.

(c) For any emissions unit (except as provided for in 310 CMR 7.00: *Appendix A* <u>Actual</u> <u>Emissions(b)</u>) which has not begun normal operations on the particular date, actual emissions shall equal the federal potential emissions of the unit on that date.

<u>Allowable Emissions</u> means the emissions rate, in tons per year, of a stationary source calculated by multiplying the maximum rated capacity of the source (unless the source is subject to federally enforceable limits which restrict the operating rate, or hours of operation, or both) times the most stringent of:

(a) Any applicable standards set forth in 40 CFR part 60 (NSPS) or 61 (NESHAPS);

(b) Any applicable Massachusetts SIP emissions limitation including a limitation with a future compliance date; or

(c) Any emissions rate specified as a federally enforceable permit condition, including a limitation with a future compliance date.

<u>Begin Actual Construction</u> means physical on-site construction activities on an emissions unit which is of a permanent nature. Such activities include, but are not limited to, installation of building supports and foundations, laying of underground pipework, and construction of permanent storage structures. With respect to a change in method of operation, this term refers to those on-site activities other than preparatory activities which mark the initiation of the change.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

Appendix A: continued

<u>Building, Structure, Facility, or Installation</u> means all of the pollutant-emitting activities which belong to the same industrial grouping, are located on one or more contiguous or adjacent properties, and are under the control of the same person (or persons under common control). Any marine vessel is a part of a facility while docked at the facility. Any marine vessel is a part of an Outer Continental Shelf (OCS) source while docked at and within 25 miles en route to and from the OCS source. Pollutant-emitting activities shall be considered as part of the same industrial grouping if they belong to the same Major Group (*i.e.*, which have the same two-digit code) as described in the *Standard Industrial Classification Manual*, 1987.

<u>Clean Coal Technology (CCT)</u> means any technology at a new or existing emissions unit(s), including technologies applied at the precombustion, combustion, or post combustion stage, which will achieve significant reductions in air emissions of sulfur dioxide or oxides of nitrogen associated with the utilization of coal in the generation of electricity, or process steam which was not in widespread use as of November 15, 1990.

<u>Clean Coal Technology Demonstration Project</u> means a project using funds appropriated under the heading 'Department of Energy-Clean Coal Technology,' up to a total amount of \$2,500,000,000 for commercial demonstration of clean coal technology, or similar projects funded through appropriations for the United States Environmental Protection Agency (EPA). The Federal contribution for a qualifying project shall be at least 20% of the total cost of the demonstration project.

<u>Coastal Waters</u> means tidal waters over permanently or periodically submerged lands lying between the mean high tide line and a line seaward from the coastline to the boundary line of each State. The boundary shall extend no more than three geographical miles into the Atlantic Ocean.

<u>Commence</u> means as applied to construction of a major stationary source or major modification that the owner or operator has all necessary preconstruction approvals or permits and either has:

(a) Begun, or caused to begin, a continuous program of actual on-site construction of the source, to be completed within a reasonable time; or,

(b) Entered into binding agreements or contractual obligations, which cannot be canceled or modified without substantial loss to the owner or operator, to undertake a program of actual construction of the source to be completed within a reasonable time.

<u>Complete</u> means, in reference to an application for a plan approval, that the application contains all of the information necessary for processing the application, as determined by the Department. Designating an application administratively complete for purposes of permit processing does not preclude the Department from requesting or accepting any additional information.

<u>Construction</u> means any physical change or change in the method of operation (including fabrication, erection, installation, demolition, or modification of an emissions unit) which would result in an increase in actual emissions.

<u>Corresponding Onshore Area</u> means, for stationary sources located in, or on, navigable rivers and lakes, coastal waters, or the Outer Continental Shelf (OCS), the onshore attainment or nonattainment area which is closest to the source. However, the Department or EPA may determine that another area with more stringent requirements with respect to the control and abatement of air pollution may reasonably be expected to be affected by such emissions. Such determination shall be based on the potential for air pollutants from the offshore source to reach the other onshore area and the potential of such air pollutants to affect the efforts of the other onshore area to attain or maintain any Federal or State ambient air quality standard or to comply with the provisions of 310 CMR 7.00: *Appendix A*.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

Appendix A: continued

<u>Electric Utility Steam Generating Unit</u> means any steam electric generating unit that is constructed for the purpose of supplying more than 1/3 of its potential electric output capacity and more than 25 MW electrical output to any utility power distribution system for sale. Any steam supplied to a steam distribution system for the purpose of providing steam to a steam-electric generator that would produce electrical energy for sale is also considered in determining the electrical energy output capacity of the affected facility.

<u>Emissions Unit</u> means any part of a stationary source, which emits or would have federal potential emissions of any pollutant (including fugitive emissions), subject to regulation under the Act.

<u>Energy Input</u> means the total gross calorific value (where gross calorific value is measured by ASTM Method D2015-66, D240-64, or D1826-64) of all fuels burned. Energy input is calculated in British thermal units (Btu) per hour using the higher heating value of the fuel.

<u>Fossil Fuel-Fired Boiler</u> means a unit (or combination of such units) which combusts fossil fuel (or receives energy from other fossil fuel-fired units) to produce steam by indirect heat transfer and includes such units that produce steam for electric generation. The energy input for such units includes any energy provided to such units from the combustion of fossil fuels in other units. The total energy input from fossil fuel-firing for a combination of such units is the sum of the energy inputs from fossil fuel-firing for each unit.

<u>Fossil Fuel-Fired Electric Plant</u> means one or more units (a plant) that combust fossil fuel to produce electricity. The total energy input for such a plant from fossil fuel-firing is the sum of the energy inputs from fossil fuel-firing for each combustion unit that is part of such plant.

<u>Fugitive Emissions</u> means those emissions which could not reasonably pass through a stack, chimney, vent or other functionally equivalent opening.

<u>Indian Governing Body</u> means the governing body of any tribe, band, or group of Indians subject to the jurisdiction of the United States and recognized by the United States as possessing power of self-government.

<u>Indian Tribe</u> means any Indian tribe, band, nation, or other organized group or community which is Federally recognized as eligible for the special programs and services provided by the United States to Indians because of their status as Indians.

<u>Lowest Achievable Emission Rate (LAER)</u> means, for any source, the more stringent rate of emissions based on the following:

(a) The most stringent emissions limitation which is contained in any state SIP for such class or category of stationary source, unless the owner or operator of the proposed stationary source demonstrates that such limitations are not achievable; or

(b) The most stringent emissions limitation which is achieved in practice by such class or category of stationary source. This limitation, when applied to a modification, means the lowest achievable emissions rate for the new or modified emissions units within a stationary source.

In no event shall LAER allow a proposed new or modified stationary source to emit any pollutant in excess of the amount allowable pursuant to applicable new source standards of performance.

<u>Major Modification</u> means any physical change in or change in the method of operation of a major stationary source that would result in a significant net emissions increase of any pollutant, for which the existing source is major, subject to regulation under the Act.

(a) Any net emissions increase that is considered significant for VOCs shall be considered significant for ozone; and

(b) For the purpose of applying the requirements of 310 CMR 7.00: Appendix A to major stationary sources of NO_x any significant net emissions increase of NO_x is considered significant for ozone, in addition to any separate requirements for NO_x under part C or D of Title I of the Act; and

- (c) A physical change or change in the method of operation shall not include:
 - 1. Routine maintenance, repair and replacement; or

2. Use of an alternative fuel or raw material by reason of an order under sections 2 (a) and (b) of the Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act; or

3. Use of an alternative fuel by reason of an order or rule under sec. 125 [Measures to Prevent Economic Disruption or Unemployment] of the Act; or

4. Use of an alternative fuel at a steam generating unit to the extent that the fuel is generated from municipal solid waste; or

5. Use of an alternative fuel or raw material by a stationary source where:

a. The source is approved to use such fuel or raw material under any plan approval issued under 310 CMR 7.00: *Appendix A*; or

b. The source was capable of accommodating such fuel or raw material before December 21, 1976, unless such change would be prohibited under any federallyenforceable permit condition which was established after December 21, 1976 pursuant to 40 CFR part 52.21 (Prevention of significant deterioration of air quality), plan approval requirements under 310 CMR 7.02(1), 7.00: *Appendix A*, *Appendix B*(3), operating permits issued either under 310 CMR 7.00: *Appendix C* or pursuant to 40 CFR part 71 or prohibited under any other federally-enforceable regulatory requirements; or

6. An increase in the hours of operation or in the production rate, unless such change is prohibited under any federally-enforceable permit condition which was established after December 21, 1976 pursuant to 40 CFR 52.21 (Prevention of significant deterioration of air quality), plan approval requirements under 310 CMR 7.02(2), 310 CMR 7.00: *Appendix A*, 310 CMR 7.00: *Appendix B*(3), operating permits issued either under 310 CMR 7.00: *Appendix C* or pursuant to 40 CFR part 71 or prohibited under any other federally-enforceable regulatory requirements; or

7. Any change in ownership at a stationary source; or

8. The addition, replacement or use of a pollution control project at either an existing electric utility steam generating unit or an emissions unit(s) in order to comply with 310 CMR 7.08(2), 7.18, 7.19, 7.24, or 7.34, unless the Department determines that such addition, replacement, or use renders the unit less environmentally beneficial; or unless

a. The Department has reason to believe that the pollution control project would result in a significant net increase in representative actual annual emissions of any criteria pollutant over levels used for that source in the most recent air quality impact analysis in the area conducted for the purpose of Title I of the Act, if any; and

b. The Department determines that the increase will cause or contribute to a violation of any national ambient air quality standard or PSD increment, or visibility limitation; or

9. The installation, operation, cessation, or removal of a temporary clean coal technology demonstration project, provided that the project complies with:

a. the Massachusetts SIP, and

b. other requirements necessary to attain and maintain the national ambient air quality standard during the project and after it is terminated.

<u>Major Stationary Source</u> means any stationary source of air pollutants which emits, or has the federal potential emissions greater than or equal to, 100 tpy or more of any pollutant subject to regulation under the Act, except that lower emissions thresholds shall apply as follows:

50 TPY of volatile organic compounds (VOC), or

50 TPY of oxides of nitrogen (NO_x).

In addition, any physical change that would occur at a stationary source not previously qualifying as a major stationary source will be considered a major stationary source, if the physical change would result in the following increases either in actual emissions or in the federal potential to emit, greater than or equal to:

50 TPY of volatile organic compounds (VOC), or

50 TPY of oxides of nitrogen (NO_x) , or

100 TPY or more of any other pollutant subject to regulation under the Act.

(a) A stationary source that is major for VOC shall be considered major for ozone. VOC emissions, as precursors to the pollutant ozone, are subject to the requirements of 310 CMR 7.00: *Appendix A*; and

(b) For the purpose of applying the requirements of 310 CMR 7.00: Appendix A to major stationary sources of NO_x a stationary source that is major for NO_x is considered major for ozone, in addition to any separate requirements for NO_x under part C or D of Title I of the Act; and

(c) The fugitive emissions of a stationary source shall not be included in determining, for any of the purposes of 310 CMR 7.00: *Appendix A*, whether the stationary source is a major stationary source, unless the stationary source belongs to one of the following categories of stationary sources:

Carbon black plants (furnace process); or Coal cleaning plants (with thermal dryers); or Coke oven batteries; or Charcoal production plants; or Chemical process plants; or Fuel conversion plants; or Fossil fuel-fired boilers (or combination thereof) totaling more than 250 million British thermal units per hour heat input; or Fossil fuel-fired electric plants of more than 250 million British thermal units per hour heat input; or Glass fiber manufacturing plants; or Hydrofluoric acid plants; or Iron and steel mills; or Kraft pulp mills; or Lime plants; or Municipal incinerators (or combinations thereof) capable of charging more than 50 tons of refuse per day; or Nitric acid plants; or Outer continental shelf sources; or Petroleum refineries; or Petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels; or Phosphate rock processing plants; or Portland cement plants; or Primary aluminum ore reduction plants; or Primary copper smelters; or Primary lead smelters; or Primary zinc smelters; or Secondary metal production plants; or Sintering plants; or Sulfuric acid plants; or Sulfur recovery plants; or Taconite ore processing plants; or Any other stationary source category regulated under sec. 111 (NSPS) or 112 (NESHAPS) of the Act before November 15, 1990.

<u>Navigable Rivers and Lakes</u> means non-tidal bodies of water which were navigable at the time the States in which they are located became members of the United States. This term does not include waters over lands now or heretofore constituting a part of the public lands of the United States, if such lands were not meandered in connection with the public survey of such lands under the laws of the United States and title to such lands was lawfully conveyed from the United States or any State to any person.

<u>Necessary Preconstruction Approvals or Permits</u> means those permits or plan approvals required under Federal air quality control laws and regulations, and those air quality control laws and regulations which are part of the Massachusetts State Implementation Plan.

Net Emissions Increase means

- (a) The amount by which the sum of the following exceeds zero:
 - 1. Any increase in actual emissions from a particular physical change or change in the method of operation at a stationary source; and

2. Any other increases and decreases in actual emissions at the source shall be included for netting purposes, that are contemporaneous with the particular change and are otherwise creditable as described in 310 CMR 7.00: *Appendix A* <u>Net Emissions Increase(b)</u>, (c), (d), (e) and (f).

(b) An increase or decrease is contemporaneous with the particular change only if it occurs over any period of five consecutive calendar years which includes the calendar year the increase will occur, but not earlier than January 1, 1990.

(c) An increase or decrease in actual emissions must have occurred prior to the increase from the particular change in order for the increase or decrease to be considered contemporaneous for purposes of calculating a net emissions increase.

(d) An increase or decrease in actual emissions is creditable only if the increase or decrease in actual emissions has not been credited in a previous plan approval issued under 310 CMR 7.00: *Appendix A*, unless that approval has been rescinded.

(e) An increase in actual emissions is creditable only to the extent that the new level of actual emissions exceeds the old level.

(f) A decrease in actual emissions is creditable only to the extent that:

1. The old level of actual emissions or the old level of allowable emissions, whichever is lower, exceeds the new level of actual emissions; and

2. It is federally-enforceable at and after the time that actual construction on the particular change begins; and

3. The reduction was not required as a condition of the Massachusetts SIP, in demonstrating attainment or reasonable further progress, in issuing any permit or plan approval under 310 CMR 7.00: *Appendix A*, 310 CMR 7.02(3)(j)6. (BACT requirement), 40 CFR 52.21 (PSD), operating permits issued either under 310 CMR 7.00: *Appendix C* or 40 CFR part 71 or otherwise required under the Act ; and

4. For VOC emissions, the decreased emissions have approximately the same qualitative significance for public health and welfare as that attributed to the increase from the particular change; and

5. The unit was actually operated one or more years and emitted the nonattainment pollutant for which the decrease is being sought. Reductions of permitted emissions for units that were never operated cannot be considered creditable emissions decreases.

(g) An emissions increase that results from a physical change at a source occurs when the emissions unit on which construction occurred becomes operational and begins to emit a particular pollutant. Any replacement unit that requires shakedown becomes operational only after a reasonable shakedown period, not to exceed 180 days.

(h) Emission reduction credits (ERCs) withdrawn from the Department's Emission Reduction Banking System are creditable if the ERCs meet the criteria in 310 CMR 7.00: *Appendix A* <u>Net Emissions Increase(a)</u> through (g).

<u>Nonattainment Pollutant</u> means an air pollutant (or precursor of the pollutant, as applicable) for which an area is designated nonattainment (as of the date on which a complete application is filed) pursuant to § 107(d) [Nonattainment Designations] of the Act or oxides of nitrogen (NOx) or volatile organic compounds (VOC).

<u>Outer Continental Shelf (OCS)</u> shall have the meaning provided, as of the date of promulgation of 310 CMR 7.00, by section 2 of the Outer Continental Shelf Lands Act (43 U.S.C. 1331 *et seq*).

Outer Continental Shelf Source means any equipment, activity, or facility which:

(a) Emits or has federal potential emissions of any air pollutant; and

(b) Is regulated or authorized under the Outer Continental Shelf Lands Act (43 U.S.C. 1331 *et seq*); and

(c) Is located on the OCS or in or on the waters above the OCS.

<u>Pollution Control Project</u> means any activity or project at either an existing electric utility steam generating unit or at an emissions unit(s) to comply with 310 CMR 7.08(2), 7.18, 7.19, 7.24, or 7.34 for purposes of reducing emissions from such unit. Such activities or projects are limited to:

(a) The installation of conventional or innovative pollution control technology, including but not limited to advanced flue gas desulfurization, sorbent injection for sulfur dioxide and nitrogen oxides controls and electrostatic precipitators; or

(b) an activity or project to accommodate switching to a fuel which is less polluting than the fuel used prior to the activity or project, including, but not limited to natural gas or coal re-burning, or the co-firing of natural gas and other fuels for the purpose of controlling emissions; or

(c) a permanent clean coal technology demonstration project conducted under title II, sec. 101(d) of the Further Continuing Appropriations Act of 1985 (sec. 5903(d) of title 42 of the United States Code), or subsequent appropriations, up to a total amount of \$2,500,000,000 for commercial demonstration of clean coal technology, or similar projects funded through appropriations for the EPA; or

(d) a permanent clean coal technology demonstration project that constitutes a repowering project ; or

(e) an activity or project to reduce emissions of VOC or NO_x to comply with 310 CMR 7.08(2), 7.18, 7.19, 7.24, or 7.34.

<u>Reasonable Further Progress</u> means such annual incremental reductions in emissions of the relevant air pollutant as are required by part D (Plan Requirements for Nonattainment Areas) of the Act or may reasonably be required by the Department or EPA for the purpose of ensuring attainment of the applicable national ambient air quality standards in an area by the applicable statutory deadline or resulting from shutdowns that are credited towards attainment.

Repowering means:

(a) replacement of an existing coal-fired boiler with one of the following clean coal technologies: atmospheric or pressurized fluidized bed combustion, integrated gasification combined cycle, magnetohydrodynamics, direct and indirect coal-fired turbines, integrated gasification fuel cells, or as determined by the EPA, in consultation with the Secretary of Energy, a derivative of one or more of these technologies, and any other technology capable of controlling multiple combustion emissions simultaneously with improved boiler or generation efficiency and with significantly greater waste reduction relative to the performance of technology in widespread commercial use as of November 15, 1990; or
(b) any oil and/or gas-fired unit which has been awarded clean coal technology

demonstration funding as of January 1, 1991, by the Department of Energy.

<u>Representative Actual Annual Emissions</u> means the average rate, in tons per year, at which the source is projected to emit a pollutant for the two-year period after a physical change or change in the method of operation of a unit, (or a different consecutive two-year period within ten years after that change, where the Department determines that such period is more representative of normal source operations), considering the effect any such change will have on increasing or decreasing the hourly emissions rate and on projected capacity utilization. In projecting future emissions the Department:

(a) shall consider all relevant information, including but not limited to historical operational data, the company's own representations, filings with Massachusetts Department of Public Utilities or Federal regulatory authorities, filings with the Department pursuant to 310 CMR 7.12, Department regulations and approvals issued pursuant to those regulations and compliance plans under title IV of the Clean Air Act; and

(b) shall exclude, in calculating any increase in emissions that results from the particular physical change or change in the method of operation at an electric utility steam generating unit, that portion of the unit's emissions following the change that could have been accommodated during the representative baseline period and is attributable to an increase in projected capacity utilization at the unit that is unrelated to the particular change, including any increased utilization due to the rate of electricity demand growth for the utility system as a whole.

<u>Secondary Emissions</u> means emissions which would occur as a result of the construction or operation of a major stationary source or major modification, which do not come from the major stationary source or major modification itself. For the purpose of 310 CMR 7.00: *Appendix A*, secondary emissions must be specific, well defined, quantifiable, and impact the same general area as the stationary source or modification which causes the secondary emissions. Secondary emissions include emissions from any offsite support facility which would not otherwise be constructed or undergo an increase in emissions except as a result of the construction or operation of the major stationary source or major modification. Secondary emissions do not include tailpipe emissions from any source regulated under title II of the Act or any emissions from in-transit, non-OCS marine vessels.

Significant means

(a) In reference to a net emissions increase or the potential of a source to emit any of the following pollutants, a rate of emissions that would equal or exceed any of the following rates:

POLLUTANT	EMISSION RATE
Carbon monoxide:	100 tpy
Ozone:	25 tpy of nitrogen oxides (NO_x) where an
	administratively complete application was received on
	or after November 15, 1992 for the physical change or
	change in the method of operation.
Ozone:	40 tpy of VOC
	25 tpy of VOC where an administratively complete
	application was received on or after November 15,
	1992 for the physical change or change in the method
	of operation.
Sulfur dioxide:	40 tpy
Particulate matter:	15 tpy as PM10
Lead:	0.6 tpy

(b) A net increase in emissions of VOCs or NO_x that would result from either any physical change in or change in the method of operation, of a stationary source is significant if such increase exceeds applicable thresholds when aggregated with all, creditable and contemporaneous, increases and decreases, in emissions of the same pollutant.

<u>Stationary Source</u> means any building, structure, facility, or installation which emits or which may emit any air pollutant subject to regulation under the Act.

(a) A stationary source may consist of one or more emissions units and:

1. may be a land-based point or area source; or

2. may be located in, or on, the OCS or other submerged lands beneath navigable waters (lakes, rivers, and coastal waters adjacent to Outer Continental Shelf lands); or

3. may be any internal combustion engine, or engine combination, greater than 175 horsepower (hp) used for any stationary application; or

4. may be any internal combustion engine regulated under Sec. 111 (NSPS) of the Act, regardless of size; or

5. may be any internal combustion engine of less than 175 horsepower (hp) not actually controlled to meet a regulation under Sec. 213 (Nonroad Engines and Vehicles) of the Act.

(b) A stationary source does not include:

1. emissions resulting directly from an internal combustion engine for transportation purposes; or

2. tailpipe emissions from any source regulated under title II of the Act or any emissions from in-transit, non-OCS marine vessels.

<u>Temporary Clean Coal Technology Demonstration project</u> means a CCT demonstration project that is operated for a period of five years or less, and which complies with the Massachusetts SIP and other requirements necessary to attain and maintain the national ambient air quality standard during the project and after it is terminated.

(3) <u>Applicability and exemptions</u>. (*see* also 310 CMR 7.00: *Appendix A*(10) Source Obligation.)

(a) Any major stationary source or major modification to which the requirements of 310 CMR 7.00: *Appendix A* apply shall not receive a plan approval to begin actual construction unless the Department is satisfied that the stationary source or modification will meet the requirements of 310 CMR 7.00: *Appendix A*.

(b) The requirements of 310 CMR 7.00: *Appendix A* shall apply only to any new major stationary source or major modification that is major for either:

1. the pollutant (or precursor of the pollutant, as applicable) for which an area is designated nonattainment (as of the date on which a complete application is filed) pursuant to \$ 107(d) [Nonattainment Designations] of the Act if the stationary source or modification would be constructed in the designated nonattainment area; or

2. oxides of nitrogen (NOx) or volatile organic compounds (VOC).

(c) The requirements of 310 CMR 7.00: *Appendix A* shall apply in any Outer Continental Shelf area for which the corresponding onshore area is designated as nonattainment as of the date on which a complete application is filed in accordance with 310 CMR 7.00: *Appendix A*.

(d) If a stationary source is in one of the categories listed in the definition of 310 CMR 7.00: *Appendix A* <u>Major Stationary Source(c)</u>, fugitive emissions, to the extent quantifiable, are included when calculating federal potential emissions to determine if the stationary source or modification is subject to the provisions of 310 CMR 7.00: *Appendix A*.

(e) In the case of any major stationary source of volatile organic compounds located in the area (other than a source which emits or has federal potential emissions of 100 tons or more of volatile organic compounds per year), whenever any physical change or change in the method of operation at that source results in any increase (other than a *de minimis* increase) in emissions of volatile organic compounds from any discrete operation, unit or other pollutant emitting activity at the source, such increase shall be considered a modification for purposes of 310 CMR 7.00: *Appendix A*, except that such increase shall not be considered a modification for such purposes if the owner or operator of the source elects to offset the increase by greater reduction in emissions of volatile organic compounds concerned from other operations, units, or activities within the source at an internal offset ratio of at least 1.3 to 1. If the owner or operator does not make such election, such change shall be considered a modification for such purposes, but in applying 310 CMR 7.00: *Appendix A*(4)(c) in the case of any such modification, the best available control technology (BACT), as defined in 310 CMR 7.00: <u>DEFINITIONS</u>, shall be substituted for the lowest achievable emission rate (LAER).

(f) In the case of any major stationary source of volatile organic compounds located in the area which emits or has federal potential emissions 100 tons or more of volatile organic compounds per year, whenever any physical change or change in the method of operation at that source results in any increase (other than a de minimis increase) in emissions of volatile organic compounds from any discrete operation, unit or other pollutant emitting activity at the source, such increase shall be considered a modification for purposes of 310 CMR 7.00: *Appendix A*, except that if the owner or operator of the source elects to offset the increase by a greater reduction in emissions of volatile organic compounds from other operations, units or activities within the source at an internal offset ratio of at least 1.3 to 1, the requirements of 310 CMR 7.00: *Appendix A*(4)(c) (concerning the lowest achievable emission rate (LAER) shall not apply.

(g) 310 CMR 7.00: Appendix A(3)(e) and (f) apply to modifications at major stationary sources of NO_x in the same way that they apply to sources of volatile organic compounds.

(4) <u>Control technology review.</u>

(a) A new major stationary source or major modification at an existing major stationary source shall meet each applicable emissions limitation under the Massachusetts SIP and each applicable emissions standard of performance under 40 CFR parts 60 (NSPS) and 61 (NESHAPS).

(b) A new major stationary source shall meet the lowest achievable emission rate (LAER) for each pollutant subject to the provisions of 310 CMR 7.00: *Appendix A* that would have federal potential emissions in major amounts. This provision applies to each new emissions unit at which emissions would occur. Major amounts are as follows:

- 1. VOC 50 tons or more per year.
- 2. NO_x 50 tons or more per year.

3. 100 tons per year or more of any other pollutant subject to regulation under the Act. (c) A major modification shall meet the lowest achievable emission rate (LAER) for each pollutant subject to the requirements of 310 CMR 7.00: *Appendix A* which would result in a significant net emissions increase at the source. This requirement applies to each proposed emissions unit at which a net emissions increase in the pollutant would occur as a result of the physical change or change in the method of operation in the unit being proposed. LAER will not be required for previous modifications included in the determination of net emissions increase considered in determining major modification status, but which are not to be modified as part of the proposed project.

(d) For phased construction projects, the determination of the lowest achievable emission rate (LAER) shall be reviewed and modified as appropriate at the latest reasonable time, but no later than 18 months prior to commencement of construction of each independent phase of the project. At such time, the owner or operator of the stationary source may be required to demonstrate the adequacy of any previous determination of the lowest achievable emission rate to the next phase of construction.

(5) <u>Reasonable Further Progress</u>.

(a) Sufficient offsetting emissions shall be in effect such that the total emissions from existing sources in the area, from new or modified sources which are not major stationary sources, and from the proposed source will be sufficiently less than the total emissions from existing sources prior to the application for such plan approval to construct or modify so as to represent (when considered together with the SIP provisions required under sec. 172 of the Act) reasonable further progress by the time the proposed source or modification is to commence operation; and

(b) for the purposes of satisfying the requirements of 310 CMR 7.00: Appendix A(5)(a), the determination of total emissions at both the time prior to the application for a plan approval subject to the requirements of 310 CMR 7.00: Appendix A and the time such permitted source or modification would commence operation, shall be made in a manner consistent with the Massachusetts SIP approved by the EPA concerning baseline emissions for the demonstration of reasonable further progress and attainment of the national ambient air quality standards for the particular pollutant subject to review pursuant to 310 CMR 7.00: Appendix A.

(6) Emissions Offsets.

(a) Prior to the issuance of a plan approval for any emissions unit(s), for which offsets are required pursuant to 310 CMR 7.00: *Appendix A*, emission offsets must be made federally enforceable; and

(b) For a new major stationary source of NOx or major modification of a major stationary source of NOx located in a area that is not a nonattainment area, prior to commencing operation of any emission unit(s), for which offsets are required under 310 CMR 7.00: Appendix A, NOx emission offsets must actually occur and be obtained from the same source or other sources within the Ozone Transport Region. For a new major stationary source of VOC or major modification of a VOC source located in an area that is not a nonattainment area, prior to commencing operation of any emission unit(s), for which offsets are required under 310 CMR 7.00: Appendix A, VOC emission offsets must actually occur and be obtained from the same source or other sources within the Ozone Transport Region that contributes to a violation of the NAAQS in a non-attainment area that the new source or modification will impact. For a new major stationary source or major modification located in a nonattainment area, prior to commencing operation of any emission unit(s) for which offsets are required under 310 CMR 7.00: Appendix A, emission offsets must actually occur and be obtained from the same source or other sources in the same nonattainment area, except that such emissions reductions may be obtained from a source in another nonattainment area if:

1. The other area has an equal or higher nonattainment classification than the area in which the source is located; and

2. Where the proposed new source or modified source is located in a nonattainment area, emissions from such other area contribute to a violation of a national ambient air quality standard in the nonattainment area in which the proposed new or modified source would construct.

(c) Emission offsets for a land-based stationary source may not be obtained from Outer Continental Shelf (OCS) sources. However, emission offsets for an OCS source may be obtained from land-based stationary sources.

(d) The increase in emissions of any applicable nonattainment air pollutant allowed from either the proposed new major stationary source or from the proposed changes at the major stationary source that are part of the major modification, shall be offset by an equal or greater reduction, as applicable, in the actual emissions of such air pollutant from the same or other sources.

(e) In meeting the requirements of 310 CMR 7.00: Appendix A(6)(d), the ratio of total actual emission reductions to the increase in actual emissions shall be as follows:

1. 1.2:1 of VOC or NO_x ; or

2. 1:1 of any other pollutant subject to regulation under 310 CMR 7.00: *Appendix A*.(f) Shutdowns.

1. Emissions reductions achieved by shutting down an existing source or curtailing production or operating hours below baseline levels may be generally credited if such reductions are real, surplus, permanent, quantifiable and federally enforceable. In addition, the shutdown or curtailment is creditable only if it occurred after December 31, 1990, and the following conditions have been met:

a. the Department has submitted a completed emissions inventory as required by The Clean Air Act, 182(a)(1)ct; and

b. the Department has submitted complete revisions to 310 CMR 7.00: *Appendix* A as required by The Clean Air Act, § 182(a)(2)(C); and

c. the Department submits the 15% VOC reduction plan required by the Clean Air Act, 182(b)(1)(A); and

d. the Department submits the attainment demonstration required by The Clean Air Act 182(c)(2); or

2. If any of the submissions in 310 CMR 7.00: Appendix A(6)(f)1.a. through d. are delinquent, incomplete or disapproved, emissions reductions from shutdowns or curtailments can not be used, unless the shutdown or curtailment occurred either on or after the date the new source plan approval application is filed or unless the applicant can establish that the proposed new source is a replacement for the shutdown or curtailed source, and the cutoff date provisions of Appendix A(6)(f)1. are observed.

(g) With respect to a proposed increase in VOC emissions, no emissions credit shall be allowed for reductions in any organic compound specifically excluded from the definition of "VOCs" in 310 CMR 7.00.

(h) Credit for an emissions reduction may not be claimed to the extent that the Department has relied on the reduction as a condition of the Massachusetts SIP, in demonstrating attainment or reasonable further progress, in issuing any permit or plan approval under 310 CMR 7.02(3)(j)6. (BACT requirement), 310 CMR 7.00: *Appendix A*, 40 CFR 52.21 (PSD), operating permits issued either under 310 CMR 7.00: *Appendix C* or pursuant to 40 CFR part 71 or otherwise required under the Act. Incidental emissions reductions which are not otherwise required under the Act may be creditable as emissions reductions for such purposes if such emissions reductions meet the applicable requirements of 310 CMR 7.00: *Appendix A*(6).

(i) Emission reduction credits (ERCs) withdrawn from the Massachusetts Emission Reduction Credit Bank (310 CMR 7.00: *Appendix B*(3)) may be used as offsets, providing the ERCs are federally enforceable and meet all of the requirements under 310 CMR 7.00: *Appendix A*(6).

(j) Emission reductions generated by the seasonal control of ozone precursors (VOC or NO_x), during the period May 1 through September 30, may be used at any time during the calendar year. Emission reductions generated by the seasonal control of VOC or NO_x , during the period October 1 through April 30, may only be used during the period October 1 through April 30th. Emission reductions generated by the seasonal control of carbon monoxide, during the period November 1st through February 28th, may be used at any time during the calendar year. Emission reductions generated by the seasonal control of carbon monoxide, during the period March 1st through October 31, may only be used during the period March 1st through October 31st.

(7) <u>Source Impact Analysis</u>. The applicant shall demonstrate to the satisfaction of the Department that;

(a) the emissions offsets required under 310 CMR 7.00: Appendix A(6), when considered in conjunction with the proposed emissions increase will have a net air quality benefit in the affected area;

(b) the emissions from the proposed new major stationary source or major modification will not contribute to nonattainment in, or interfere with maintenance by any other state of any national primary or secondary ambient air quality standard; and

(c) the emissions from the proposed new major stationary source or major modification will not interfere with measures required to be included in the applicable implementation plan for any other State under a program for the prevention of significant deterioration or for the protection of visibility.

(8) <u>Additional Conditions for Approval</u>. In order for the Department to issue an approval under 310 CMR 7.00: *Appendix A*, the following conditions shall be met:

(a) All major stationary sources in Massachusetts owned or operated by the owner or operator of the proposed source (or by any entity controlling, controlled by, or under common control with such owner or operator) which are subject to federally enforceable emission limitations must be in compliance, or on a federally enforceable schedule for compliance, with all applicable emissions limitations and standards under the Act.

(b) By means of an analysis of alternative sites, sizes, production processes, and environmental control techniques for such proposed new or modified stationary source, the owner or operator of the proposed stationary source or modification shall demonstrate to the satisfaction of the Department that the benefits of the proposed source significantly outweigh the environmental and social costs imposed as a result of its location, construction, or modification.

(c) The Administrator has not determined that the Massachusetts SIP is not being adequately implemented for the nonattainment area (as applicable) in which the proposed stationary source or modification is to be constructed in accordance with the requirements of part D of the Act.

(9) <u>Public Participation</u>.

(a) The Department shall notify all applicants as to any administrative or technical deficiencies in the plan approval application or information submitted.

(b) After receipt of a technically complete application the Department shall:

1. Make a proposed decision as to whether the plan approval application shall be approved, approved with conditions, or disapproved.

2. Provide a 30-day public comment period for submittal of public comment;

3. Post on a public website identified by the Department (which may be the Department's own website), for the duration of the public comment period, the following:

a. A notice of availability of the Department's proposed decision to approve or deny the plan approval and information on how to submit public comment;

b. The Department's proposed decision to approve or deny the plan approval; and

c. Information on how to access the administrative record for the Department's proposed decision on whether to approve or deny the plan approval application.

4. Send a copy of the notice required under 310 CMR 7.00: Appendix A(9)(b)3.a. to the applicant, the EPA, and officials and agencies having jurisdiction over the location where the proposed construction would occur as follows: any other State or local air pollution control agencies, the chief executives of the city where the source would be located; any comprehensive regional land use planning agency, and any Federal Land Manager, or Indian Governing body whose lands may be affected by emissions from the source or modification.

5. Consider all public comments (written and oral) submitted at any public hearing(s) in making a final decision on the approvability of the application. The Department shall make all comments available for public inspection in the same locations where the Department made available preconstruction information relating to the proposed source or modification.

6. Make a final decision as to whether the plan approval application should be approved, approved with conditions, or disapproved.

7. Notify the applicant in writing of the final decision and make such notification available for public inspection at the same location where the Department made available preconstruction information and public comments relating to the source.

(10) Source Obligation.

(a) Except as provided for in 310 CMR 7.00: Appendix A(10)(b),

1. any owner or operator who constructs or operates either a stationary source or modification not in accordance with the terms of the approval to construct issued under 310 CMR 7.00: *Appendix A*; or

2. any owner or operator of a stationary source or modification subject to 310 CMR 7.00: *Appendix A*, who commences construction after November 15, 1992 without applying for and receiving approval under 310 CMR 7.00: *Appendix A*,

shall be considered in noncompliance with 310 CMR 7.00: *Appendix A*, unless a complete application to construct or substantially reconstruct or alter under 310 CMR 7.02(1) was filed by November 15, 1992 and the change was approved by the Department.

(b) If an owner or operator of a stationary source began construction of a new source or a modification before the applicable date specified in 310 CMR 7.00: *Appendix A* (10)(b)(1. through 4.), then the owner or operator need not comply with 310 CMR 310 CMR 7.00: *Appendix A*.

1. If the source or modification resulted in an increase in actual emissions of VOCs, then the applicable date is January 10, 1980.

2. If the source or modification resulted in an increase in actual emissions of CO, then the applicable date is January 10, 1980, or the date on which the location in which the construction or modification occurred was declared in the Federal Register to be in nonattainment.

3. If the source or modification resulted in an increase in actual emissions of NOx, then the applicable date is November 15, 1990.

4. If the source or modification resulted in an increase in any other nonattainment pollutant, then the applicable date is the date on which the location in which the construction or modification occurred was declared in the Federal Register to be in nonattainment for that pollutant.

(c) Approval to construct shall become invalid if construction is not commenced within 18 months after receipt of such approval, if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified. This provision does not apply to the time period between construction of the approved phases of a phased construction project; each phase must commence construction within 18 months of the projected and approved commencement date.

(d) Approval to construct shall not relieve any owner or operator of the responsibility to comply fully with applicable provisions of the Massachusetts SIP and any other requirements under local, State or Federal law.

(e) At such time that a particular source or modification becomes a major stationary source or major modification solely by virtue of a relaxation in any enforceable limitation on the capacity of the source or modification to emit a pollutant, where such enforceable limitation was established after August 7, 1980, then the requirements of 310 CMR 7.00: *Appendix A* shall apply to the source or modification as though no previous approval had been issued on the source or modification.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

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310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

APPENDIX B: U EMISSION BANKING, TRADING, AND AVERAGING

(1) <u>Introduction</u>. 310 CMR 7.00: *Appendix B*(1) through (6) establishes principles and procedures which can be utilized by facilities to comply with the requirements of 310 CMR 7.18, 310 CMR 7.19 and 310 CMR 7.00: *Appendix A*. 310 CMR 7.00: *Appendix B* contains provisions to allow emission averaging or "bubbles" and provisions to allow for the creation and use of emission reduction credits to be "banked", used or traded among facilities.

(2) <u>Definitions</u>. The definitions found in 310 CMR 7.00 apply to 310 CMR 7.00: *Appendix B*. The following words and phrases shall have the following meanings as they appear in 310 CMR 7.00: *Appendix B*. Where a term is defined in the 310 CMR 7.00 definitions section and the definition also appears in 310 CMR 7.00: *Appendix B*, the definition in 310 CMR 7.00: *Appendix B* controls.

<u>Actual Emissions</u> means, the average rate, in tons per year, at which a unit actually emitted the pollutant during the two-year period which precedes the date of application and which is representative of normal production rates or activity levels. The Department shall allow the use of a different two year consecutive time period, within five years immediately prior to the date of application, upon a determination that the alternative two year period is more representative of normal source operation. Actual emissions shall be calculated using the eligible source's actual operating hours, production rates, and types of materials processed, stored, or combusted during the selected time period.

<u>Allowable Emissions</u> means the emissions rate of a source calculated using either the production or activity rates associated with the maximum rated capacity of the source, and the hours of operation or the permitted hours of operation or capacity provided that such permit is federally enforceable and so as not to exceed the following:

(a) Any applicable standards set forth in 40 CFR part 60 (NSPS) or 61 (NESHAPS);

(b) Any applicable Massachusetts SIP emissions limitation including a limitation with a future compliance date; or

(c) Any emissions rate specified as a federally enforceable permit condition, including a limitation with a future compliance date.

<u>Area Source</u> means stationary and non-road sources of emissions who are too small and/or too numerous to be individually included in a stationary source emission inventory examples being home heating furnaces, aircraft, commercial vessels, gas stations and lawn mowers.

<u>Baseline</u> means the emission level set for an eligible source and calculated in accordance with methods described in 310 CMR 7.00: *Appendix B*(3)(c), which reflects the lower of actual emissions, or allowable emissions and which serves as the level below which emission reductions are considered surplus and can be eligible for approval by the Department as Emission Reduction Credits (ERC). As future allowable emissions, allowable emissions or actual emissions will be the baseline below which reductions must be made to be considered surplus.

<u>Bubble</u> means an alternative emission control strategy where two or more existing emission points are regarded as being placed under a hypothetical bubble, which is then regarded as a single emission source.

<u>Curtailment</u> means a permanent reduction in hours of operation or process rate, said reduction approved in a permit issued by the Department.

<u>Direct Determination</u> means a calculation or measurement based on source specific information rather than from estimates of emission and control efficiencies.

<u>Eligible Source</u> means any stationary, area or mobile source of VOC, NOx or CO emissions which is eligible to participate in emissions banking and trading at any point in time.

<u>Emission Estimation</u> means calculation of emissions using estimated emission factors and assumptions of control efficiency not based in whole or in part on actual measurement or detailed records for an emission unit.

<u>Emission Limiting</u> means a program or strategies that directly specify limits on total mass emission, emission related parameters (*e.g.*, emission rates per unit of product) or levels of emission reductions that are required to be met by eligible sources.

<u>Emission Reduction Credit (ERC)</u> means the actual air pollutant reductions from an emitting source that have been certified by the Department as enforceable, permanent, quantifiable, real, and surplus in accordance with the requirements of 310 CMR 7.00: *Appendix B*.

<u>Enforceable</u> means those limitations and conditions which are enforceable by the Department of Environmental Protection and the EPA. Examples of such enforceable mechanisms include, but are not limited to the following:

(a) Conditions in pre-construction permits issued pursuant to 40 CFR 52.21 (federal delegated PSD programs); or

(b) Limitations developed pursuant to 40 CFR Parts 60 (NSPS) and 61 (NESHAPS); or

(c) Requirements contained in the EPA-approved Massachusetts State Implementation Plan (SIP), or source-specific SIP revisions that are approved by EPA; or

(d) Conditions in pre-construction "plan approvals" issued by the Commonwealth of Massachusetts, provided that those pre-construction "plan approval" regulations have been approved by the EPA in the *Federal Register* as meeting the requirements of 40 CFR 51.160.
(e) Permits issued pursuant to generic bubble regulations that have been approved by EPA as adhering to the December 4, 1986, Emissions Trading Policy Statement.

(f) Information contained in a Department-issued Emission Reduction Credit approval for retrospectively approved ERCs, as to by what means the ERCs were created.

<u>Future Allowable</u> means the maximum emission rate, process rate or activity level assumed in the most recent Department adopted State Implementation Plan for Ozone or State Implementation Plan for Carbon Monoxide. An example might be the future allowable (1994) emission rate for Leather Coating operations at 27.4 pounds of VOC per gallon of solid applied [310 CMR 7.18(22)] which when applied to the two year average capacity utilization factor and two year average hours of operation for an eligible source, would result in the estimate of baseline starting on the rule effective date in 1994. Prior to this effective date, credit is calculated using a baseline that includes the lower of actual or allowable emissions at the time of application.

<u>Irreversible Process Change</u> means a process modification or equipment substitution that completely and irreversibly eliminates key emitting properties of the emission unit. For example, elimination of solvent use in a process line.

<u>Mass ERC Bank</u> means the Massachusetts registry for ERCs quantified by mass (*e.g.* tons). ERCs from this bank may be used either for compliance pursuant to 310 CMR 7.00: Appendix B(3) or for "discrete" offsets pursuant to 310 CMR 7.00: Appendix B(3) and 310 CMR 7.00: Appendix A.

<u>NEPOOL Marginal Emission Rate or Successor Organization Rate</u> means the corresponding calendar year NO_x emission rate determined by NEPOOL or a successor organization through accepted modeling or data gathering techniques reviewed and approved by the Department.

<u>Netting</u> means the mechanism used to secure an exemption of modifications at existing stationary sources from preconstruction permit requirements under 310 CMR 7.00 Appendix A (Emission Offsets and Nonattainment Review) and/or 40 CFR 52.21 (Prevention of Significant Deterioration) regulations which apply when there is a significant net emissions increase.

<u>Non-inventoried Emission Source Category</u> means air pollutants emitted into the ambient air from any source category which has not been included in the Department's 1990 emission inventories.

<u>Offset</u> means the use of an Emission Reduction Credit to compensate for emission increases of a nonattainment pollutant from a new major stationary or modified major stationary source subject to the requirements of 310 CMR 7.00: *Appendix A*.

<u>Permanent</u> means that emission reductions implemented for the purpose of generating Emission Reduction Credit must be assured for the life of the corresponding Emission Reduction Credit through a federally enforceable mechanism.

<u>Program Baseline</u> means the level of emissions, or emission related parameters for each eligible source or group of sources from which the program results (*e.g.* quantifiable emission reductions) shall be determined. For purposes of 310 CMR 7.00: *Appendix B*, the program baseline shall be the 1990 Base Year Emission Inventory of Volatile Organic Compound, Oxides of Nitrogen and Carbon Monoxide.

<u>Quantifiable</u> means that the amount, rate, and characteristics of an emission reduction can be measured through a replicable method acceptable to the Department of Environmental Protection and the EPA.

<u>Rate ERC Bank</u> means the Massachusetts registry of ERC that have been certified at a continuous rate (i.e. tons per year). ERCs from the Rate ERC Bank may be used for the purposes of offsets pursuant to 310 CMR 7.00: *Appendix B*(3) and 310 CMR 7.00: *Appendix A*.

<u>Real</u> means the reduction in actual emissions released into the air.

<u>Remaining Useful Life</u> means the length of time for which the equipment that is being shut down would have continued to operate had the owner/operator chosen not to shut down the equipment and apply for certification of credits at that time. Remaining useful life shall be ten years except in those cases where the Department determines a shorter period is appropriate, or the applicant demonstrates to the Department's satisfaction that a period of longer than ten years is warranted. The Department will use the following criteria for making the determination including, but not limited to: the age of the equipment; the type of equipment; maintenance history; operating history; and industry norms. In any case, remaining useful life shall not exceed 20 years.

<u>Replicable</u> means methods which are sufficiently clear and unambiguous such that the same or equivalent results would be obtained by the application of the methods by different users.

<u>Shutdown</u> means the earlier of (1) the date that the Department verifies that the source is shutdown or 2) the date that operations and emissions from an emitting unit ceased and the associated emission units have been removed or rendered inoperable.

<u>State Implementation Plan (SIP)</u> means the most recently prepared plan or revision thereof required by the Clean Air Act, 42 USC Section 7410, which has been either adopted by the Department and submitted to the United States Environmental Protection Agency (EPA) for approval or approved by the United States Environmental Protection Agency (EPA), whichever is more stringent.

<u>Surplus</u> means, emission reductions beyond an established source baseline which, as such, are not required by the Department adopted SIP, relied upon in any applicable attainment demonstration, or credited in any RFP or milestone demonstration.

<u>Transfer</u> means the conveyance of ownership of an Emission Reduction Credit from one entity to another.

<u>Use</u> for the purposes of 310 CMR 7.00: *Appendix B*, the term "use" shall mean to employ for emission averaging or emission trading an ERC such that the person who owns or controls the ERC has received a plan approval from the Department which factors the ERC into the emissions from the facility for purposes of compliance with emission limitations or emission offset requirements.

(3) Emission Reduction Credit Banking and Trading.

(a) Introduction and statement of purpose. The goal of the program, defined by 310 CMR 7.00: *Appendix B*(3), is to encourage the creation and trading of surplus emission reductions as Emission Reduction Credits (ERC) to be used for purposes of offsets, netting and cost effective compliance without interfering with any applicable requirements concerning attainment, reasonable further progress or any other applicable air pollution control requirement.

- (b) <u>Applicability</u>.
 - 1. Entry into this program is voluntary.

2. 310 CMR 7.00: Appendix B(3) applies to the owner/operator of eligible sources including stationary sources, area sources and mobile sources applying for certification of surplus emission reductions as emission reduction credits (ERC).

3. Nothing in 310 CMR 7.00: *Appendix B* shall require that ERCs be listed in either the Rate ERC Bank or the Mass ERC Bank if the ERCs are being transferred to other facilities operated or owned, in whole or part, by the creator of the ERCs, provided that the requirements of 310 CMR 7.00: *Appendix B*(3)(e) are met prior to use of the ERCs.

4. Nothing in 310 CMR 7.00: *Appendix B* shall require that emission reductions, created for the purpose of offsets, be submitted for approval through the emission banking program if the emission reductions are used by the facility or within facilities owned by the same economic entity which created the emission reductions and provided that the requirements of 310 CMR 7.00: *Appendix A* are met.

- (c) <u>Generation of Emission Reduction Credit</u>.
 - 1. General Principles which apply to generation of Emission Reduction Credits (ERC). a. Emission reductions within Massachusetts shall be recognized as ERCs only after the approval of the Department has been obtained in accordance with 310 CMR 7.00: *Appendix B*(3).

b. Emission reductions generated for the purpose of creating ERCs must meet, at minimum, all of the following principles, to receive approval as emission reduction credits.

i. The reductions must have occurred after December 31, 1990.

ii. The reductions must be real reductions of emissions of: Volatile Organic Compounds (VOC), Oxides of Nitrogen (NOx), or Carbon Monoxide (CO);

iii. The reductions must be surplus in that they are reductions in emissions below the baseline established for the eligible source.

iv. The reductions must be permanent and the amount and duration of the reduction must be documented; and,

v. The reductions must be quantifiable, with a replicable basis for calculating the amount of reduction as well as reliable methods for assessing compliance with the emission rates after the reduction has been made, and the reductions must be enforceable.

c. Emission reductions cannot be recognized as ERCs if said reductions are required by Federal or Department permits, plan approvals, agreements, administrative or judicial orders, or other enforcement actions or regulations.

d. Emission reductions can only be eligible for certification pursuant to 310 CMR 7.00: *Appendix B*(3) if said reductions occur from emissions sources within the geographical boundaries of Massachusetts. ERCs generated by sources outside of the Commonwealth may be used by facilities within the Commonwealth pursuant to 310 CMR 7.00: *Appendix B*(3)(f).

e. Emission reductions eligible for credit are those emissions reductions below baseline for the eligible source.

f. Emission reductions considered eligible for consideration as ERCs include:

i. Shutdown or curtailment provided that the applicant can demonstrate to the satisfaction of the Department that demand for the services or product will not or cannot shift to other similar sources in the State resulting in no net decrease in emissions from the source category. Where emission reductions from shutdowns of electric generating facilities will be used exclusively as offsets for new facilities pursuant to 310 CMR 7.00: *Appendix A*, the ERC will not be adjusted for shifting demand. If such reductions are to be deposited in the Mass ERC Bank, credit will be available only to the extent that the emission rate from the unit being shut down or curtailed is greater than the applicable NEPOOL marginal emission rate or successor organization rate.

ii. Control of an emission unit beyond that required by Massachusetts Air Pollution Regulations or federal law and regulations.

iii. Seasonal Controls with the recognition that VOC and NOx emission reductions created by the application of seasonal controls will be subject to use restrictions as defined in 310 CMR 7.00: *Appendix B*(3)(e)8.

iv. Early implementation of future emission controls provided that the reductions commence before promulgation of the regulations establishing the new emission controls. These reductions are surplus only up to the effective date for compliance with the program or emission controls. Credit will cease to accrue upon the effective date of the new emission controls.

v. Emission reductions which result from application of mobile and area source controls provided that the reductions meet all other requirements of 310 CMR 7.00: *Appendix B* including provisions for establishment of baseline and replicable quantification as well as compliance monitoring methods.

g. Emission reductions are not eligible for consideration as an ERCs if said reductions are generated by an un-inventoried area source category (e.g., small bakeries) or if said reductions are generated by biogenic sources (e.g., trees).

2. Calculation of Credit.

a. Credit shall be calculated by first calculating baseline emissions, second calculating the post reduction emissions, and third multiplying the difference between the baseline emissions and post reduction emissions by the applicable compliance assurance factor. The ERC amount is the result of complete application of these three steps.

b. Baseline emissions will be expressed in tons of pollutant emitted per day or per year, whichever is more appropriate and shall be further defined as ozone or non-ozone (October 1 - April 30) season.

Step 1:

c. Baseline emissions will be established for each stationary source according to the following formula:

baseline = ER x (CU x H)

Where:

ER equals the lower of the actual or allowable emission rate

ER shall be expressed as mass of emission per unit of production or thruput (*e.g.*, pounds of VOC per gallon of solids applied or pounds of NOx per million Btu)

CU equals the <u>actual</u> average hourly capacity utilization (*e.g.*, expressed in terms of millions of Btu per hour or numbers of gallons of solids applied in an hour).

H equals the actual number of hours of operation per day.

ERC, CU and H are based on average historical values for the factors for two representative years within the five years immediately prior to the date of application.

d. Baseline emissions will be established for each area source measure according to the following formula:

baseline = ER x ACT

Where:

ER equals the emission rate as determined by the Department and EPA in the most recent emission inventory using EPA approved methods and emission factors including AP-42 and Volume IV for Area Source, or the EPA Off-road Study for off-road sources. Assumptions shall be consistent with the most recent adopted periodic emission inventory prepared by the Department.

ER must be the lower of actual, or allowable emission rate and shall be expressed as mass of emission per unit of production or thruput (e.g., pounds per 1000 gallons burned or pounds per capita, as is appropriate)

ACT equals the actual average activity factor expressed in a manner so as to be consistent with the units required by the emission rate such as number of gallons burned, or number of persons affected.

- e. Baseline emissions will be established for each Mobile Source by methods approved or published by EPA or the Department, including but not limited to:
 - i. Interim guidelines on the Generation of Mobile Source ERC, 58 FR 11134.

ii. Guidance for Implementation of Accelerated Retirement of Vehicle programs, U.S. EPA, February 1993.

iii. Program for Generation of Emission Credits by Urban Buses, U.S. EPA, January 1993.

3. Calculation of post-reduction emissions.

Step 2:

a. Creditable, workable and replicable methods must be used to quantify postreduction emissions reflecting the real emission reduction below baseline emissions. The post-reduction emissions shall be calculated using methods as or more accurate than those used to calculate baseline emissions.

b. Post-reduction emissions for DSM shall be determined after implementation of these DSM measure(s) and based on review of historical records covering a period of no less than one year collected since implementation, and shall be calculated in conformance with guidance provided and approved by the Massachusetts DPU.

4. <u>Calculation of the Emission Reduction Credit</u>.

a. <u>Step 3</u>: The emission reduction is calculated by first subtracting post-reduction emissions from baseline emissions.

b. The emission reduction will be certified by the Department as an emission reduction credit after application of a compliance assurance multiplier to the resulting difference between baseline emissions and post-reduction emissions. The applicable compliance assurance multiplier will be determined by the Department within the ranges provided in the table below. Actual ERC adjustment will be set for individual circumstances and conditions within these ranges.

Method of Compliance Assurance	Compliance Assurance Multiplier
Irreversible process change Compliance Assessment by Direct Determination: Continuous Emission Monitoring System (CEMS)	1.0
installed pursuant to 40 CFR part 75	1.0
Mass Balance Reconciliation	0.85 - 0.99
CEMS other than 40 CFR part 75	0.80 - 0.95

Compliance Assessment by Testing: Periodic Stack Test / Emission Test Testing of Capture Efficiency and control	0.80 - 0.90
Emission Determinations using estimates of capture and control and/or emission factors	0.50 - 0.80

- i. The resulting amount of credit will be rounded to the nearest ton.
- ii. Once the three step calculation has been completed, and the result rounded

to the nearest ton, the resulting ERCs shall not be subject to adjustment of value. c. ERCs certified from discrete, retrospective reductions shall be expressed in total tons and will be placed in the Mass ERC Bank. ERCs from the Mass ERC Bank may be used as offsets pursuant to 310 CMR 7.00: *Appendix A* with approval of the Department.

d. ERCs certified from either shutdowns or enforceable prospective over-control of emissions shall be expressed in tons per year, and will be placed in the Rate ERC Bank. In the event the owner of ERCs from a shutdown wishes to transfer the ERCs to the Mass ERC Bank, the Department will assign the ERCs from the shutdown a "remaining useful life" in years, which will be used to transfer the ERCs from the Rate ERC Bank to the Mass ERC Bank. If the ERC transferred are from shutdown of an electric generating facility, the Department will also subtract the NEPOOL marginal emission rate or successor organization rate replacement power in effect at the time of original certification of the ERCs.

(d) <u>Procedure For Certification of Emission Reductions as ERC</u>.

1. An application for certification of ERCs may be submitted in advance of the time when the reduction is actually made (prospective certification) or after the reduction has been made (retrospective certification).

2. Unapprovable sources of generation and quantities.

a. ERCs may not be generated from non-inventoried sources. In other words, only sources accounted for in SIP and RFP planning (inventoried sources) may be used to generate credits.

b. ERCs can be approved only where the emission reduction, as calculated under 310 CMR 7.00 Appendix B(3)(c)4.a., is greater than 5 tons per year for deposit in the Rate ERC Bank, or greater than 5 tons for the Mass ERC Bank.

3. For emission reductions implemented prior to January 1, 1994, an Emission Reduction Credit Application must be submitted to the Department by September 30, 1994.

4. For emission reductions implemented after January 1, 1994, an Emission Reduction Credit Application must be submitted to the Department within six months of:

a. the end date of the period being evaluated for a retrospective discrete emission reductions.

b. the approval date of a federally enforceable mechanism for prospective emission reductions other than 310 CMR 7.00 *Appendix B*(3).

5. Application Procedures.

a. Any person who owns or operates an emission unit at which an eligible emission reduction has occurred or will occur may submit an Emission Reduction Credit (ERC) application in accordance with the requirements of 310 CMR 7.00: *Appendix B*.

b. The ERC application shall be submitted on a standard form supplied by the Department with documentation provided by the applicant as to the calculation method for baseline and the post-reduction emissions as required by 310 CMR 7.00: *Appendix B*(3) as well as a proposed method for determining and assuring compliance.

c. ERC applications shall express emission reductions in tons, or in tons per year if for offsets, and indicate what portions of the reductions were made during the period May 1 - September 30 (ozone season).

d. ERC applications shall contain sufficient information to allow the Department to evaluate each emission reduction consistent with the requirements of 310 CMR 7.00: *Appendix B*(3).

- e. The ERC application shall be signed by a responsible official.
- f. The ERC application shall comply with provisions of 310 CMR 4.00 *et seq.* for fees and permit procedures.

6. ERC approvals will be emission-limiting, either prospectively or retrospectively, as applicable. An ERC approval will be issued pursuant to 310 CMR 7.00: *Appendix B*(3). To be made federally enforceable, it must contain the specific quantifiable emission limits reflecting the change in emission rate, operating conditions and other measures taken to generate the ERCs. All emissions limitations, controls, and other requirements imposed by such approvals must be at least as stringent as all other applicable limitations and requirements contained in the SIP, enforceable under the SIP, or otherwise federally enforceable. All limitations, controls, and other requirements imposed by such approvals must be at least as stringent as all other applicable limitations and requirements contained in the SIP, enforceable under the SIP, or otherwise federally enforceable. All limitations, controls, and other requirements imposed by such approvals must be permanent, quantifiable, and enforceable as a practical matter.

a. In order to confirm emission reductions claimed in conjunction with an application for a prospective Emission Reduction Credit, the Department will require sources to implement compliance assurance methods such as monitoring, recordkeeping and reporting as part of the ERC certification approval.

b. The Department may also require the applicant to conduct source testing utilizing Department or EPA approved test methods, including but not limited to those methods referenced in 40 CFR Part 60 Appendix A, or 310 CMR 7.18(2), or 310 CMR 7.19(13), as appropriate for the source.

c. In addition, the Department may require regular submittal of information which the Department determines is necessary to maintain the integrity of the ERC.

7. A person having ownership of ERCs has the exclusive right to possess and dispose of the ERCs subject to the applicable restrictions contained in the certification approval and 310 CMR 7.00: *Appendix B*(3).

8. ERCs in the Rate ERC Bank shall revert to the state to be retired for the benefit of the environment if they have not been used by midnight of the date ten years from the date of Department approval. ERCs in the Mass ERC Bank shall not expire or cease to exist after a set period of time, even if not traded or used.

(e) <u>Withdrawal, Transfer, and Use of Emission Reduction Credits</u>.

1. The Department must issue a federally enforceable approval to a person seeking to use ERCs prior to the use of any ERCs. This includes approvals to construct or operate issued to stationary sources and a practical equivalent to be issued to persons who have applied to use ERCs in area and mobile source situations.

2. Persons seeking to use ERCs must obtain an amount of credit equal to five percent more than the amount needed for the offset or compliance calculation. This five percent increment shall be held by the applicant and not used or sold until such time that the Department determines whether or not the excess credit can be released for use. Such a determination shall be made by the Department on or about January 1, 1999. If the Department determines it cannot release said ERCs for use, the ERCs will by operation of law be retired for the benefit of the environment.

3. ERCs may not be used to meet the requirements of, or result in violation of federal New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutants (NESHAPS), the requirements for Lowest Achievable Emission Rate (LAER), the requirements for Best Available Control Technology (BACT), Maximum Achievable Control Technology (MACT), Title IV, section 183(e) and 183(f) of the Clean Air Act, cause a violation of a National Ambient Air Quality Standard for criteria pollutants, cause a violation of a PSD increment or create a nuisance condition. ERCs may not be used to stay below an applicability threshold of the Clean Air Act or 310 CMR 7.00 *et seq.*

4. ERCs may not be used to comply with performance standards established by regulation, such as, operating procedure requirements (*e.g.* covers on degreasers, operating within a specific temperature range) or to comply with requirements for record keeping, reporting or facility testing as may be required by the Department.

5. Where ERCs are used for netting under 310 CMR 7.00: Appendix A, the ERCs must meet the criteria in 310 CMR 7.00: *Appendix A* <u>Net Emissions Increase</u>(a) through (g), as applicable.

6. Certified ERCs can be traded between emission sectors (*e.g.*, from mobile sources to stationary sources) provided that credit generated by stationary source reductions may under no circumstances be used to comply with any mobile source requirement.

7. ERCs generated through emission reductions of one pollutant can not be used for trading or averaging with another pollutant.

8. ERCs generated by the control of ozone precursors (VOC and NO_x) during the period May 1st through September 30th, can be used at any time during the calendar year. ERCs generated by control of ozone precursors during the period October 1st through April 30th, can only be used in the same season as generated (October 1st through April 30th).

9. ERCs generated by the use of seasonal control of carbon monoxide during the period November 1st through February 28th, can be used at any time during the calendar year. ERCs generated through use of seasonal control of carbon monoxide during the period March 1st through October 31st can only be used in the in the same season as generated (March 1st through October 31st).

10. ERCs approved from shutdown or curtailment of an emission unit where the emitting operations are based on manufacturing activity and the operations, and jobs associated with the emitting activity are shifted outside of Massachusetts, are eligible for use only in Massachusetts. 310 CMR 7.00: *Appendix B*(3)(e)11. does not apply to electric generating facilities.

11. ERCs generated by shutdowns are presumptively available only for offsets pursuant to 310 CMR 7.00: *Appendix A*. If at any time prior to use ofERCs as offsets an owner of said ERCs wishes to use them for compliance purposes, the Department will assign a "remaining useful life" to said ERCs which will be used to transfer the ERCs from the Rate ERC Bank to the Mass ERC Bank. If the ERCs were generated by an electric generating facility shutdown, the Department will also subtract the NEPOOL marginal emission rate or successor organization rate in effect at the time of original ERC certification. Offset credits generated outside of the Commonwealth of Massachusetts are not eligible for conversion to mass-based credits.

12. ERCs from the Rate ERC Bank used as offsets pursuant to a 310 CMR 7.00: *Appendix A* approval, must be retired at the approved annual offset rate regardless of the facility's annual actual emissions. In addition, ERCs from the Mass ERC Bank used as offsets pursuant to a 310 CMR 7.00: *Appendix A* approval, must be obtained for the current year of operation plus four subsequent years of operation; and five years of ERCs, available for use in each of those five years, must be held at all times for the approval to remain valid. These ERCs will be retired on December 31st of each year, beginning with the first calendar year or any portion thereof, in which the facility operates.

13. ERCs utilized as offsets are considered "used" commencing with startup of a facility; ERCs with an expiration date prior to actual startup of a source needing offsets will not be acceptable as offsets for the facility.

14. <u>Conversions to Allowances</u>. (Reserved)

(f) Interstate Trading of ERCs.

1. Federally enforceable emission reductions generated by facilities outside the Commonwealth may be used in the Commonwealth, and ERC generated in the Commonwealth may be used in other states or jurisdictions, provided that the State within which the other facility is located has executed a Memorandum of Understanding concerning emission trading with the Commonwealth.

2. Said Memoranda of Understanding will include at a minimum:

a. the requirement that creditable emission reductions be real, surplus, permanent, quantifiable and federally enforceable;

b. discounts as appropriate to make ERCs generated outside of the Commonwealth equivalent with ERCs generated in the Commonwealth;

- c. restrictions on allowable directionality oftrades if necessary;
- d. state-specific notification or other requirements, as necessary;
- e. ERC lifetimes and expiration dates, if applicable;
- f. ozone season definition and restrictions;

g. the requirement that any ERC generated outside of the Commonwealth can be used in the Commonwealth only in compliance with 310 CMR 7.00: *Appendix* B(3)(e), except where specifically stated otherwise; and

h. averments of cooperation on enforcement and reporting.

3. Interstate emission reduction credit trades must comply with the specific requirements of the applicable Memorandum of Understanding.

(g) <u>Emission Reduction Credit Registry</u>.

1. Upon satisfaction of all applicable requirements of 310 CMR 7.00: *Appendix B*, approved emission reduction credits shall be registered in an Emission Reduction Credit Registry operated or overseen by the Department. Such registry shall include:

a. Name of generator and contact person;

b. Pollutant associated with the ERCs;

c. Amount of ERC expressed in tons, or in tons per year if banked in Rate ERC Bank;

d. Any seasonal use restrictions on the ERCs;

e. Whether the ERCs may be used or are reserved as part of a 5% set aside pursuant to 310 CMR 7.00: *Appendix B*(3)(e)2.

2. ERCs shall be tracked within the Emission Reduction Credit Registry by assigning a serial number to each ton of ERC, or ton per year if banked for use as offsets. The serial number will provide information about the type of pollutant, type of ERC (rate/mass), seasonality and first year available for use.

3. Information related to emission reduction credits maintained in the Emission Reduction Credit Registry shall be available for public review.

(h) <u>Program review</u>.

1. The Department shall maintain records of ERCs and shall account for unused ERCs as "emitted" within the context of RFP and periodic emission inventory reports.

2. The Department shall conduct a review of the emission trading program beginning in 1995 and every three years thereafter. This review shall evaluate the handling of applications for ERC approval and use, and the legitimacy of approved ERCs, and may include review of ERCs creation and use protocols, and compliance assessment of sources using ERCs.

3. The program review shall also include assessment of the impact of the program on Reasonable Further Progress, attainment or maintenance of the National Ambient Air Quality Standards, and ascertain if there is any significant effect from interstate trades pursuant to 310 CMR 7.00: *Appendix B*(3)(f).

4. Should a review reveal the need to make program revisions, the Department shall, within six months of the review findings, propose the appropriate program revisions.

5. The results of Department reviews and the findings shall be reported in the context of required RFP and periodic inventory reports (every three years).

6. Program Baseline for this program is the most recent revision of the 1990 Base Year Emission Inventory of Volatile Organic Compound, Oxides of Nitrogen and Carbon Monoxide and the State Implementation Strategy Plan submittal of November 15, 1993 which describes programs and strategies to be used by the Commonwealth to attain and maintain NAAQS for ozone and carbon monoxide. Source baseline as described in previous sections is defined within the context of the program baseline (the lower of actual, allowable or future allowable emissions) so as to avoid interference with attainment and maintenance of NAAQS.

- (4) <u>Emission Averaging (Bubble)</u>.
 - (a) <u>Introduction</u>.

1. The purpose of 310 CMR 7.00 *Appendix* B(4) is to specify requirements by which one or more facilities operated or controlled by the same economic entity can comply with either 310 CMR 7.18 or 7.19, respectively, using emissions averaging, herein referred to as a bubble, under either 310 CMR 7.18(2)(b) or 7.19(14).

2. In an emissions bubble, a person who operates or controls one or more facilities with more than one emission unit subject to regulation by 310 CMR 7.00, may apply to the Department to meet the requirements of either 310 CMR 7.18 or 7.19 through a mix of control techniques. The emissions of the various emission units are averaged over a 24 hour period, except as provided for in 310 CMR 7.00 *Appendix* B(4)(e)5.

(b) <u>Applicability</u>.

1. 310 CMR *Appendix* B(4) applies to any person who operates or controls a facility(ies) subject to either 310 CMR 7.18(3) through (6), (10) through (12), (14) through (16), (21) through (26), (30)(c)7., (31) or 310 CMR 7.19(4), (5), (7), (8), (12), that set an emission limitation in either pounds of VOC per gallon of solids applied or pounds of NO_x per million Btu of heat input, respectively, and who chooses to comply by emission averaging.

2. For bubbles to comply with 310 CMR 7.18, emission units subject to emissions standards other than pounds of VOC per gallon of solids applied (*e.g.* such as pounds of VOC per pound of solids applied, pounds of VOC per 1000 square feet covered, metric units, *etc.*) may be averaged with other emission units subject to an emission limitation in the same units of measure.

3. For bubbles under 310 CMR 7.19, 310 CMR 7.19(14)(a), through (c) describe which emissions units can be averaged together to comply with 310 CMR 7.19 and under what replicable and equivalent methods.

4. A bubble can not be used to comply with work practice requirements of either 310 CMR 7.18 or 7.19.

5. For purposes of 310 CMR 7.00 *Appendix* B(4), emission bubbles are only allowed for the purpose of compliance at a single facility or multiple facilities which are operated by or under the control of the same economic entity.

6. Nothing in 310 CMR 7.00 *Appendix* B(4) relieves a facility from having to comply with other requirements of 310 CMR 7.00 as may be applicable.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

NON-TEXT PAGE

7. For facilities that have bubbles that were approved by the Department under 310 CMR 7.18(2)(b) and for which the application was received prior to May 25, 1988, the approved bubble conditions, recordkeeping and reporting requirements shall remain in force and no revision of said bubble approvals is required by 310 CMR 7.00: *Appendix B(4)*, unless and until the facility seeks to have the existing bubble approval modified. At that time, the request to modify the bubble shall be subject to 310 CMR 7.00: *Appendix B(4)*. However, with respect to those bubbles that were approved by the Department under 310 CMR 7.18(2)(b) and for which the application was received prior to May 25, 1988, modification of said bubbles solely to incorporate a more stringent Reasonably Available Control Technology adopted pursuant to 310 CMR 7.18 shall not make the facility subject to 310 CMR 7.00: *Appendix B(4)*.

(c) <u>General Bubble Requirements</u>.

1. Compliance with emission requirements, through use of a bubble, will be approved by the Department providing that:

a. The bubble has been approved by the Department in accordance with 310 CMR 7.00 *Appendix* B(4).

b. At no time may the use of a bubble result in a violation of a National Ambient Air Quality Standard for nitrogen dioxide (NO_2) , particulate matter or carbon monoxide (CO) as determined by modelling.

c. At no time may the use of a bubble result in total VOC or NO_x emissions at a facility exceeding the applicable emission limitations in 310 CMR 7.18 or 7.19 averaged over a 24 hour period (except as provided for in 310 CMR 7.00 *Appendix* B(4)(e)5.) for emission units in the bubble.

d. At no time may use of a bubble result in total VOC emissions exceeding a monthly facility emission baseline as calculated under 310 CMR 7.00: *Appendix* B(4)(e)2. At no time may use of a bubble with an averaging time longer than 24 hours result in NO_x emissions exceeding the daily cap as calculated in 310 CMR 7.00 Appendix B(4)(e)5.

e. Organic compounds, that are specifically excluded from the definition of VOC in 310 CMR 7.00, shall not be used to emission average.

f. At no time may use of a bubble under 310 CMR 7.00 *Appendix* B(4) be used to meet the requirements of, or result in an increase in emissions for any emission unit above a New Source Performance Standard (NSPS), National Emission Standard for Hazardous Air Pollutants (NESHAP), the requirement for Best Available Control Technology (BACT), the requirement for Lowest Achievable Emission Rate (LAER) or Maximum Achievable Control Technology (MACT).

g. Emission reductions used in a bubble must be real in that the emission reductions must be from an emission unit which actually operated within the two year time period immediately preceding the application for the bubble.

h. Emission reductions used in a bubble must be permanent and the amount and duration of the reduction must be documented.

i. Emission reductions used in the bubble must be quantifiable with a replicable method for calculating the amount of reduction, as well as, a replicable method for assessing compliance with the emission rates after the reduction has been made.

j. Emission limitations must be federally enforceable and will be documented in the facility's emission control plan approval issued by the Department.

(d) <u>Application for a Bubble</u>.

1. Application for approval of an emission bubble shall be made as part of the submittal to the Department of an emission control plan pursuant to either 310 CMR 7.18(20) or 310 CMR 7.19(3) and shall include:

a. Identification of all emission units to be included in the bubble, and

b. Demonstration of how compliance will be met and maintained, and

c. Demonstration that all emission units included in the bubble are operated by or under the control of the same economic entity, and

d. Demonstration that the bubble will not increase emissions of an emission unit included in the bubble above the following standards as applicable:

i. A Best Available Control Technology (BACT) determination pursuant to 310 CMR 7.02(3), or 40 CFR 52.21, or

ii. A Lowest Achievable Emission Rate (LAER) determination pursuant to 310 CMR 7.00 *Appendix* A, or

iii. A Federal New Source Performance Standard (NSPS [40 CFR Part 60]), or

iv. A National Emission Standard for Hazardous Air Pollutants (NESHAP [40 CFR Part 61]), or

v. A Maximum Achievable Control Technology (MACT) determination pursuant to 40 CFR Part 63.

e. For bubbles to comply with 310 CMR 7.19, evidence that the bubble will not cause an exceedance of the National Ambient Air Quality Standard for nitrogen dioxide (NO_2) or carbon monoxide (CO).

f. For facilities wishing to bubble either VOC or NO_x emissions, documentation that the bubble will result in total VOC or NO_x emissions, respectively, in compliance with the applicable emission limitation on a 24-hour basis as calculated under 310 CMR 7.00: *Appendix* B(4)(e)1. Exceptions to this averaging period may be granted by the Department as provided for in 310 CMR 7.00 *Appendix* B(4)(e)5. For VOC bubbles, the person must document that the bubble will result in total VOC emissions below the emissions baseline on a monthly basis.

g. Documentation that emission reductions used in the bubble are real, quantifiable, permanent and federally enforceable.

2. After approval of 310 CMR 7.00 Appendix B(4) by EPA into the Massachusetts SIP, certain applications to bubble will still require EPA approval. Persons wishing to include mobile and area sources in a bubble are required to have the approval of the EPA prior to inclusion of those sources in the bubble.

3. Sources subject to enforcement action require the approval of EPA prior to use of a bubble to comply with 310 CMR 7.18 or 7.19. If EPA does not object to the use of a bubble by any facility subject to enforcement action during the public comment period, then this will be taken as EPA approval to bubble.

(e) <u>Bubble Calculation</u>.

1. In order to comply with a bubble for VOC or NO_x , the combined actual emissions (AcE) over a daily (or other period as allowed by 310 CMR 7.00 *Appendix* B(4)(e)5.) from all emission units in the bubble must be less than or equal to the allowable emission total (AlE) as determined by the following equations:

 $AcE = (Ac_1 \times B_1) + (Ac_2 \times B_2) + (...) + (Ac_n \times B_n)$

 $AIE = (A_1 \times B_1) + (A_2 \times B_2) + (...) + (A_n \times B_n) + ERC$

Where:

AcE = the combined actual emissions from the facility in pounds per day.

AIE = the allowable emissions from the facility in pounds per day.

Ac₁, Ac₂,...Ac_n = the actual emission rate of each emission unit (*e.g.* for VOC; pounds of VOC per gallon of solids applied; for NO_x, pounds of NO_x per million Btu heat input) included in the bubble. Where a single CEMS is used to determine the emission rate of more than one emission unit, this will be a combined emission rate.

 $A_1, A_2,...A_n$ = the most stringent applicable emission limitation for each unit of production (*e.g.* for VOC; pounds of VOC per gallon of solids applied; and for NO_x, pounds of NO_x per million Btu heat input).

 $B_1, B_2, ..., B_n$ = the actual number of production units processed each day (e.g. for VOC: gallons of solids applied; for NO_x; million Btu heat input per day).

ERC = the daily quantity of federally enforceable emission reduction credits (ERCs) from sources of either VOC or NO_x emissions, certified by the Department under 310 CMR 7.00 Appendix B(3).

2. In addition to 310 CMR 7.00 *Appendix* B(4)(e)1., in order to comply with a bubble for VOC the total combined actual emissions, over a calendar month, from all emission units in the bubble must be less than the baseline emissions determined by the following equation:

 $BE = (ER \times CU \times H) + (ERC \times D)$

Where:

BE = the baseline emissions from the facility in pounds per month. Baseline emissions for a bubble is the sum of the baseline emissions for all emission units in the bubble.

ER = Emission rate specified in terms of mass emission per unit of production or throughput (*e.g.* pounds of VOC per gallon of solids applied) representative of the 1990 emission rate, the future allowable emission rate as determined by the SIP, 310 CMR 7.18 or other federally enforceable emission rate, whichever is lowest.

CU = Average hourly capacity utilization (e.g. gallons of solids applied per hour).

H = average number of hours of operation per month.

D = Number of days per month that the ERC generating facility operates.

ERC = the daily quantity of federally enforceable ERCs from emission units emitting VOC certified by the Department under 310 CMR 7.00 Appendix B(3).

3. In order to determine the average hourly Capacity Utilization (CU) and average number of hours of operation per month (H) in 310 CMR 7.00 *Appendix* B(4)(e)2., the facility shall average the CU rate and monthly H over the two calendar year period immediately preceding the date of the application for a bubble. Documentation in sufficient detail to enable Department staff to replicate the determination of CU and H must be submitted with the application.

4. Should it be determined that the two year historical production information required to determine CU and H is not representative of normal historical production for the facility, the applicant may submit suitable and sufficient documentation to demonstrate to the Department that two alternative consecutive years within the five year period preceding the application should be used to determine CU and H for the facility. The Department shall have final approval of the use of alternative historical production information.

5. Should it be determined for a NO_x bubble that a 24 hour averaging period is insufficient to respond to the production demands at a specific facility, a facility operator or controller may submit suitable and sufficient documentation to demonstrate to the Department that an averaging period of up to and including 30 days for the bubble is more feasible given the production process and product requirements of the specific facility. Applications for a bubble with an averaging period of greater than 24 hours shall include a commitment from the facility to maintain a daily "cap" on maximum total emissions. The cap shall be determined according to the following equation:

 $Cap = (A_1 x EI_2 x H) + (A_2 X EI_2 X H) + (....)$ $+ (A_N x EI_n x H) + ERC$

Where:

Cap = The emission cap for the facility in pounds per day. The emission cap for a bubble is the sum of the emission caps for all emission units in the bubble.

 $A_1, A_2,...A_n$ = The emission rate for each emission unit specified in terms of mass emission per unit of production (e.g. pounds of NO_x per million Btu) representative of the 1990 emission rate, the future allowable emission rate as determined by the SIP, 310 CMR 7.19 or other federally enforceable emission rate, whichever is lowest. $EI_1, EI_2, ... EI_n =$ The maximum energy input capacity for each emission unit in million Btu per hour.

H = 24 hours per day.

ERC = the daily quantity of federally enforceable ERCs from emission units emitting NO_x certified by the Department under 310 CMR 7.00 Appendix B(3).

(f) <u>Department Review of a Request to Bubble</u>. The following conditions apply to bubble applications;

1. The Department shall review each application for a bubble in a complete submittal of an emission control plan pursuant to 310 CMR 7.18(20) and 7.19(3).

2. An approved emissions bubble shall be in effect for a period of no more than five years from the date of Department final approval. However, for facilities subject to 310 CMR 7.00 Appendix C, with five year terms or less, the expiration date of the bubble shall be identical with the expiration date of the operating permit. At least nine months prior to the expiration of the bubble, the facility must reapply for permission to bubble. The Department shall review the bubble for compliance and may either renew the bubble or allow the bubble to expire. Should the bubble expire, the facility that held the bubble shall return to complying with applicable regulations based on continuous compliance for each regulated emission unit which was formerly in the bubble. Bubbles that do not already contain an emissions cap will not be required to take one as part of the renewal. For facilities with existing caps, new caps will not be recalculated.

3. The emission limitations in a bubble approval may be specific for each emission unit or may be expressed as a multi-emission unit average.

(g) <u>Compliance Determination</u>.

1. The Department shall determine compliance with the terms and conditions of the bubble through any means the Department judges to be adequate based upon the criteria listed below:

a. The provisions and emission limitations of any approved bubble shall be incorporated in the approval of the emission control plan submitted under 310 CMR 7.18(20) or 7.19(3).

b. Said emission control plan approval shall include, but not be limited to source specific emission limitation (*e.g.* pounds of VOC per gallon of solids applied; pounds of NO_x per million Btu heat input) and emission cap (*e.g.* pounds of VOC per month; pounds of NO_x per day) limits where applicable, record keeping requirements and test methods used to determine compliance.

c. Compliance with this approval shall be determined utilizing Department and EPA approved test methods and/or continuous emissions monitoring system, including but not limited to those methods referenced in 310 CMR 7.13, 7.14, 7.18(2), 7.19(13) as appropriate for the facility and emissions units.

d. In order for a facility to demonstrate compliance with the emission limitations of a bubble it is required that records shall be maintained. Records shall be kept on a daily basis for each emissions unit in the bubble and shall be specific enough to demonstrate compliance with the emission limits of the bubble for the facility as a whole. Record keeping shall include, but not be limited to:

i. Process information and identification of equipment;

ii. For surface coating operations, coating formulation information including the name of the coating, the color of the coating, the identification number for the coating as it relates to coating consumption information, the density of the coating, the total VOC contained in the coating by weight percent, the solids content of the coating as a volume percent, the percent by weight of exempt solvents as identified in the definition of VOC at 310 CMR 7.00 and the formulation of the diluents used or mixed in the coating (pounds VOC per gallon of diluent);

iii. For surface coating, daily coating/diluent consumption rate for each emissions unit in the bubble. Daily total of solvents used in clean-up.

iv. For bubbles to comply with 310 CMR 7.19, comply with the recordkeeping requirements contained in 310 CMR 7.19(13)(d).

v. Daily emissions or emission rates calculated in a manner to be consistent with the compliance averaging period approved for the facility.

vi. Any other information determined to be necessary by the Department to demonstrate compliance.

2. Records shall be kept at the facility and maintained for a five-year period. The records must be accessible for review by the Department or EPA.

3. Persons holding an approved bubble plan must submit to the appropriate regional office of the Department quarterly (January - March, April - June, July - September, October - December) summary calculations based on daily emission calculations of 1) actual emissions, 2) allowable emissions, 3) whether actual emission exceeded allowable emissions over the reporting period, and 4) whether the facility was in compliance with the emission baseline cap for each day/month. Said submittal must be made 30 days after the end of the quarter for which the report is being prepared.

4. Any exceedance of the bubble emissions limitations must be recorded and reported to include the date of exceedance and quantity of excess emissions and reported to the Department by the 30th of the month following the close of the calendar quarter in which the exceedance occurred.

(5) Enforcement.

(a) The Department shall enforce the provisions of 310 CMR 7.00: *Appendix B* under applicable law and regulations.

(b) For purposes of 310 CMR 7.00: *Appendix B*(3), a violation of the emission limitation provisions of any permit issued or modified to reflect the creation of an emission reduction credit shall be enforced at the point of ERC creation.

(6) <u>Public Participation</u>. The following conditions apply to applications under 310 CMR 7.00: *Appendix* B:

(a) For persons applying under 310 CMR 7.00: *Appendix* B(4) to comply with either 310 CMR 7.18 or 7.19, the ECP approved by the Department must be approved by EPA as a SIP revision if EPA has not approved 310 CMR 7.00 *Appendix* B(4) as a part of the Massachusetts SIP.

(b) For persons applying for Emission Reduction Credit under 310 CMR 7.00: Appendix B(3), the approval issued by the Department must be approved by EPA as a SIP revision if EPA has not approved 310 CMR 7.00: Appendix B(3) as a part of the Massachusetts SIP.
(c) The Department shall notify all applicants as to any administrative or technical deficiencies in the application or information submitted.

(d) For each Emission Reduction Credit (ERC) application submitted pursuant to 310 CMR 7.00: *Appendix B*(3) or (4), the Department shall:

1. Make a proposed decision as to whether the application should be approved, approved with conditions, or a decision that the application should be disapproved.

2. Provide a 30-day comment period for submittal of public comment.

3. Post on a public website identified by the Department (which may be the Department's own website), for the duration of the public comment period, the following:

a. A notice of availability of the Department's proposed decision to approve or deny the ERC application and information on how to submit public comment;

b. The Department's proposed decision to approve or deny the ERC application; and

c. Information on how to access the administrative record for the Department's

proposed decision on whether to approve or deny the ERC application.

4. Send a copy of the notice required under 310 CMR 7.00: *Appendix B*(6)(d)3.a. to EPA.

5. Consider all public comments in making a final decision whether or not to approve the application. The Department shall make all comments available for public inspection in the same location(s) where the Department made available information relating to the proposed approval under 310 CMR 7.00: *Appendix* B(3) or (4).

6. Make a final decision as to whether the plan approval application should be approved, approved with conditions, or disapproved.

7. Notify the applicant and the EPA in writing of the final decision and make such notification available for public inspection at the same location where the Department made available information and public comments relating to the source.

(7) Greenhouse Gas Credit Banking and Trading.

(a) Introduction and Statement of Purpose. The goal of the program set forth in 310 CMR 7.00: *Appendix B*(7) is to reduce, avoid or sequester emissions of greenhouse gas (GHG) in order for affected facilities as defined in 310 CMR 7.29 ("affected facilities") to use GHG Credits for compliance with the applicable provisions of 310 CMR 7.29(5)(a)5. (b) <u>Definitions</u>. The definitions in 310 CMR 7.00 apply to 310 CMR 7.00: *Appendix B*(7). However, the following terms have the following meanings when they appear in 310 CMR 7.00: *Appendix B*(7). Where a term defined in 310 CMR 7.00 definitions also appears in 310 CMR 7.00: *Appendix B*(7)(b), the definition in 310 CMR 7.00: *Appendix B*(7)(b) controls.

<u>Additional</u> means GHG emission reductions, avoided emissions, or sequestered emissions that are not required by local, state or federal law or regulation, or as part of a local, state or federal permit, plan, or plan approval, agreement, administrative or judicial order, or as part of an enforcement action (including such laws, regulations, permits, plans, plan approvals, agreements, orders or actions taken to reduce other pollutants) at the time of submittal of a certification application. A requirement to obtain a permit or plan approval under local, state, or federal law solely for the purpose of constructing, installing, or operating a voluntary emission reduction, avoided emission, or sequestered emission project shall not be considered when determining whether or not such project is additional.

<u>Afforestation</u> means the conversion of land that has been in a non-forested state for at least the ten years prior to the filing of an initial application for GHG Credit certification to a forested state.

<u>Avoided Emissions</u> means emissions of a GHG that do not occur and which would have otherwise occurred if not for specific projects undertaken.

<u>Cancel, Cancelled, or Cancellation</u> means transferring an allowance or credit to a cancellation account, or otherwise terminating such allowance or credit in a manner consistent with its program of origin, to prevent subsequent use in a regulatory or voluntary program, or use for any purpose other than compliance with the CO_2 emissions standards of 310 CMR 7.29.

<u>Cancellation Account</u> means the account established in a Kyoto Protocol signatory country for purposes of canceling allowances. Such account will not be established by the Department.

<u>Carbon Dioxide Equivalent or CO_{2e} </u> means the weight of a quantity of a GHG multiplied by its Global Warming Potential.

<u>Certification</u> means the process of reviewing and conditionally approving a quantity of emission reductions, avoided emissions or sequestered emissions as GHG Credits.

<u>Clean Development Mechanism</u>, or <u>CDM</u>, means a mechanism, created under the Kyoto Protocol, that allows for the creation and use of CDM CERs to demonstrate compliance with emissions targets established by the Kyoto Protocol.

<u>Clean Development Mechanism Certified Emissions Reduction</u>, or <u>CDM CER</u>, means a greenhouse gas emissions offset currency created for projects that reduce, avoid, or sequester emissions of greenhouse gases in developing countries. CDM CERs are issued by the Executive Board of the Clean Development Mechanism, and are usable for meeting country-specific greenhouse gas emissions targets established by the Kyoto Protocol.

<u>Coastal Waters</u> means the waters within the 12-mile limit pursuant to the Tariff Act of 1930 19 USC \S 1401.

<u>Energy Conservation Measure</u> means an action that reduces demand for electricity. An Energy Conservation Measure means the installation or implementation of one or more of the following measures:

(a) the design, acquisition, and installation of projects which result in energy savings, or(b) the modification of maintenance and operating procedures in a building or facility which result in energy savings, or

(c) the installation, replacement, or modification of equipment, fixtures, or materials in a building or facility which reduce energy consumption, and include, but are not limited to, modifications to windows and doors; caulking and weather-stripping, insulation; automatic energy control systems; hot water systems; equipment required to operate steam, hydraulic, and ventilation systems; plant and distribution system modifications including replacement of burners, furnaces or boilers; devices for modifying fuel openings; electrical or mechanical furnace ignition stems; utility plant system conversions; replacement or modification of lighting fixtures; and energy recovery systems.

Energy Conservation Measures do not include reductions in labor, load shifting, or measures that do not reduce energy use directly.

Enforceable means enforceable by the Department.

<u>European Union Emissions Trading Scheme</u> or <u>EU ETS</u> means a multi-country, multi-sector greenhouse gas emission trading scheme implemented in 2005 by the European Commission to control emissions of greenhouse gases.

European Union Emissions Trading Scheme Phase II Allowance or EU ETS Phase II Allowance means an allowance that can be used during the second trading period of the EU ETS, which lasts from 2008-2012, and can be used to demonstrate compliance with emission reduction targets established by the European Commission.

<u>GHG Credit</u> means a credit based on an amount of emission reductions, avoided emissions or sequestered emissions of a GHG. One GHG Credit has an assigned value of one ton of carbon dioxide equivalent. GHG Credits shall be expressed in whole tons. When certifying or verifying GHG Credits, the number of GHG Credits is rounded down for decimals less than 0.5 and rounded up for decimals of 0.5 or greater.

<u>GHG Expendable Trust</u> means the trust established pursuant to 801 CMR 50.00 for the purpose of providing a separate segregated interest-bearing account for the receipt of payments made pursuant to 310 CMR 7.00: *Appendix B*(7)(d)5.

<u>GHG Registry</u> means the database of Massachusetts GHG Credits that have been certified, verified, voided or used.

<u>Global Warming Potential or GWP</u> means the ratio of the global heat trapping effect, direct and indirect, of one mass unit of a gas to that of the same mass unit of carbon dioxide over 100 years. In implementing 310 CMR 7.00: *Appendix B*(7), the Department shall utilize the GHG GWPs, as published by the Intergovernmental Panel on Climate Change (IPCC), at the time of submittal of a certification application.

<u>Greenhouse Gas or GHG</u> means any of the gases for which a GWP is listed by the Intergovernmental Panel on Climate Change.

<u>Kyoto Protocol</u> means an international commitment, adopted in Kyoto on December 11 1997, to stabilize greenhouse gas emissions.

<u>Leakage</u> means displacement of reduced, avoided, or sequestered GHG emissions to an area or location outside of the boundary of a project which reduced, avoided or sequestered the GHG emissions.

<u>Permanent</u> means that GHG emission reductions, avoided emissions, or sequestered emissions implemented for the purpose of generating GHG Credits must be assured for the life of the corresponding GHG Credits.

<u>Phase II of the EU ETS</u> means the second trading period of the EU ETS, which lasts from 2008-2012.

Real means actual.

<u>Renewable Energy Generation Measure</u> means an energy supply-side measure using sources that are essentially inexhaustible or regenerative. Renewable sources of energy include, but are not limited to, wood, geothermal, wind, photovoltaic and solar thermal energy.

<u>Sequestered Emissions</u> means carbon that has successfully been captured and securely stored that would have otherwise been emitted to or remained in the atmosphere.

<u>Verifiable</u> means that emission reductions, avoided emissions or sequestered emissions can be determined through replicable (as defined in 310 CMR 7.00: *Appendix B*(2)) methods which are acceptable to the Department.

<u>Verification</u> means the process of determining the extent to which certified GHG emission reductions, avoided emissions or sequestered emissions actually occurred.

(c) <u>Applicability</u>.

1. Entry into this GHG Banking and Trading Program is voluntary.

2. 310 CMR 7.00: *Appendix B*(7) applies to affected facilities and any other person applying for certification or verification of GHG Credits.

3. GHG Credits certified or verified under 310 CMR 7.00: *Appendix B*(7) may only be used to satisfy the requirements of 310 CMR 7.29(5)(a)5., except as provided in 310 CMR 7:00: *Appendix B*(7)(h).

4. Applications for certification or verification of GHG Credits pursuant to 310 CMR 7.00: *Appendix B*(7)(e) may be submitted by any person.

5. Applications to verify and use EU ETS Phase II Allowances and CDM CERs pursuant to 310 CMR 7.00: *Appendix* B(7)(i) may be submitted only by affected facilities.

(d) Creation of GHG Credits.

1. GHG Credits may be created by projects which reduce emissions, avoid emissions, or sequester emissions. Examples include, but are not limited to: landfill gas combustion; sulfur hexafluoride (SF₆) capture; afforestation; natural gas, oil and propane end-use efficiency; methane capture from farming operations; stationary, area and mobile source projects; renewable energy projects; and energy conservation measures.

2. The following are not eligible for certification as GHG Credits: nuclear power generation, under-water and under-ground sequestration, and over-compliance with the cap and rate limitations in 310 CMR 7.29 by affected facilities.

3. Except as allowed pursuant to 310 CMR 7.00: Appendix B(7)(d)4, emission reduction, avoided emission or sequestered emission projects shall be located within the geographic limits of:

a. Connecticut, Delaware, Maine, Massachusetts, Maryland, New Hampshire, New Jersey, New York, Rhode Island, Vermont, or the coastal waters thereof; or,

b. The United States, or the coastal waters thereof, not including those regions specified in 310 CMR 7.00: *Appendix B*(7)(d)3.a.

4. Offset Trigger Price.

a. The Department shall establish an offset trigger price for 2006, 2007, and 2008. The offset trigger price for calendar year 2006 shall be \$6.50 per ton of CO_{2e} . For each calendar year after 2006, until such time as the offset trigger price is exceeded, the Department shall publish the new offset trigger price by January 31st, which shall be equal to the previous year's offset trigger price adjusted up or down according to the previous year's Consumer Price Index.

b. By February 15, 2007, the Department shall determine whether the offset trigger price for the previous calendar year was exceeded, or whether there are insufficient GHG Credits available for purchase at or below the offset trigger price for the previous calendar year in the geographic region specified in 310 CMR 7.00: *Appendix B*(7)(d)3. In determining whether the offset trigger price for the previous calendar year was exceeded, the Department may consider the average calendar year price of GHG Credits or of applied-for GHG Credits for the previous year, or any other relevant information.

c. Notwithstanding 310 CMR 7.00: Appendix B(7)(d)3., if the Department determines by February 15, 2007 that the offset trigger price for the previous calendar year was exceeded, or that there are insufficient GHG Credits available for purchase at or below the offset trigger price for the previous calendar year in the geographic region specified in 310 CMR 7.00: Appendix B(7)(d)3., then, for all subsequent years, applicants may apply for certification and verification of projects that occur anywhere on Earth, and certification and verification of greenhouse gas allowances and credits from any allowance or credit system.

d. By June 1, 2008, the Department shall determine whether there are insufficient GHG Credits available for purchase at or below the offset trigger price in the geographic regions specified in 310 CMR 7.00: *Appendix B*(7)(d)3. In determining whether there are insufficient GHG Credits available for purchase at or below the offset trigger price, the Department may consider the average price of GHG Credits or applied-for GHG Credits, or any other relevant information. Notwithstanding 310 CMR 7.00: *Appendix B*(7)(d)3., if the Department determines by June 1, 2008 that there are insufficient GHG Credits available for purchase at or below the offset trigger price in the geographic regions specified in 310 CMR 7.00: *Appendix B*(7)(d)3., if the Department determines by June 1, 2008 that there are insufficient GHG Credits available for purchase at or below the offset trigger price in the geographic regions specified in 310 CMR 7.00: *Appendix B*(7)(d)3., then, pursuant to 310 CMR 7.00: *Appendix B*(7)(i), affected facilities may apply to verify and use EU ETS Phase II Allowances and CDM CERs that are eligible for use under Phase II of the EU ETS.

5. Trust Trigger Price.

a. The Department shall establish a trust trigger price for 2006, 2007, and 2008. The trust trigger price for calendar year 2006 shall be \$10.00 per ton of CO_{2e} . For each calendar year after 2006, the Department shall publish the new trust trigger price by January 31^{st} , which shall be equal to the previous year's trust trigger price adjusted up or down according to the previous year's Consumer Price Index plus 2%.

b. By February 15, 2007, the Department shall determine whether the trust trigger price for the previous calendar year was exceeded. In making this determination, the Department may consider the average calendar year price of GHG Credits, of applied-for GHG Credits, or of projects funded or credits or allowances purchased by the GHG Expendable Trust for the previous year, or any other relevant information.

c. Notwithstanding 310 CMR 7.00: Appendix B(7)(d)3. and 4., if the Department determines by February 15, 2007 that the trust trigger price for the previous calendar year was exceeded, then, to demonstrate compliance with 310 CMR 7.29(5)(a)5., affected facilities may pay into the GHG Expendable Trust at the price established pursuant to 310 CMR 7.00: Appendix B(7)(d)5.a. to offset all or a portion of emissions above the historical actual emissions or excess emissions pursuant to 310 CMR 7.29(5)(a)5.c. and d., so that a combination of GHG Credits and payments into the GHG Expendable Trust equals emissions above historical actual emissions pursuant so the GHG Expendable Trust equals emissions above historical actual emissions plus excess emissions.

6. Notwithstanding 310 CMR 7.00: *Appendix B*(7)(d)3., 4., and 5., if, at any time prior to September 1, 2009, the Commissioner determines that the price of GHG Credits or of applied-for GHG Credits substantially exceeds either of the price thresholds established in 310 CMR 7.00: *Appendix B*(7)(d)4. or 5., or if insufficient GHG Credits are available, then the Commissioner may, after public notice in the Environmental Monitor, and an opportunity for public comment: expand the geographic scope; allow payments into the GHG Expendable Trust at the rate set forth in 310 CMR 7.00: *Appendix B*(7)(d)5; or reduce the annual average CO_{2e} tonnage requirements for certification of projects under 310 CMR 7.00: *Appendix B*(7)(e)3. If the geographic scope is expanded pursuant to 310 CMR 7.00: *Appendix B*(7)(d)6., then applicants for projects that occur outside of the geographic limits of the United States or the coastal waters thereof shall follow the procedures in 310 CMR 7.00: *Appendix B*(7)(i). This provision shall have no effect on and after September 1, 2009.

7. In order to be certified or verified as GHG Credits pursuant to 310 CMR 7.00: *Appendix B*(7), emission reductions, avoided emissions, or sequestered emissions shall be real, additional, verifiable, permanent, and enforceable and occur on or after January 1, 2006.

8. In the case of sequestered emissions, in order for a GHG Credit to be permanent, the owner shall, at a minimum, place the land within the sequestration project boundary under a legally binding instrument, acceptable to the Department, such that the sequestered emissions remain captured and securely stored in perpetuity.

9. In order to be certified or verified as GHG Credits pursuant to 310 CMR 7.00: *Appendix B*(7), emission reductions, avoided emissions, or sequestered emissions shall be generated only by projects built and generating energy (in the case of certain avoided emissions), or built and in use, or installed and operational (in the case of emission reductions or sequestered emissions) on or after January 1, 2006.

10. Except as provided in 310 CMR 7.00: *Appendix B*(7)(h), GHG Credits may be created for emissions reduced, avoided, or sequestered up to and including December 31, 2008, provided administratively complete applications for certification and verification are submitted to the Department no later than March 31, 2009. The Department shall have sole discretion to determine whether applications for certification and verification of GHG Credits are administratively complete.

(e) <u>Procedure For Certification and Verification of Emission Reductions, Avoided</u> <u>Emissions, or Sequestered Emissions that Occur Within the Geographic Limits of the United</u> <u>States and the Coastal Waters Thereof as GHG Credits</u>.

1. An application for certification of GHG Credits may be submitted to the Department in advance of the time when the emission reduction, avoided emission, or sequestered emission actually occurs (prospective certification) or after the emission reduction, avoided emission, or sequestered emission has actually occurred (retrospective certification).

2. In order for GHG Credits to be eligible for verification, an application for verification of GHG Credits shall be submitted to the Department within two calendar years after the end of the calendar year in which the emission reduction, avoided emission, or sequestered emission actually occurred. Applicants may apply for verification a maximum of two times per calendar year per approved certification.

3. For project-based emission reductions, avoided emissions, or sequestered emissions located within the geographic scope set forth in 310 CMR 7.00: *Appendix B*(7)(d)3.a., only those projects which generate an annual average over the period applied for of 5,000 or more tons CO_{2e} , as calculated under 310 CMR 7.00: *Appendix B*(7)(d), are eligible to be certified as GHG Credits. For project-based emission reductions, avoided emissions, or sequestered emissions located within the geographic scope set forth in 310 CMR 7.00: *Appendix B*(7)(d)3.b., only those projects which generate an annual average over the period applied for of 20,000 or more tons CO_{2e} , as calculated under 310 CMR 7.00: *Appendix B*(7)(d)3.b., only those projects which generate an annual average over the period applied for of 20,000 or more tons CO_{2e} , as calculated under 310 CMR 7.00: *Appendix B*(7)(d), are eligible to be certified as GHG Credits.

4. Application Procedures for projects.

a. Applications are required for certification and verification of GHG Credits from emissions reduction, avoided emission and sequestration projects.

b. The GHG Credit application shall be submitted on a form supplied by the Department and shall include but not be limited to: a complete description of the project; a quantification protocol that details the calculation method for the quantification of pre- and post-project emissions for emission reductions, quantity of avoided emissions, or quantity of sequestered emissions; and a proposed method for determining, monitoring and assuring compliance.

c. GHG Credit applications shall express emission reductions, avoided emissions, and or sequestered emissions in whole tons of CO_{2e} . When certifying or verifying GHG Credits, the number of GHG Credits is rounded down for decimals less than 0.5 and rounded up for decimals of 0.5 or greater.

d. GHG Credit applications shall contain sufficient information to allow the Department to evaluate each emission reduction, avoided emission or sequestered emission consistent with the requirements of 310 CMR 7.00: *Appendix B*(7). Where applicable, the applicant shall specify the best management practice used to determine an emissions baseline.

e. GHG Credit applications shall be submitted by and bear the signature of a responsible official having the legal authority to bind the applicant.

f. GHG Credit applications shall comply with provisions of 310 CMR 4.00 *et seq*. for fees and permit procedures as applicable.

g. Concurrent participation in other registries and certification programs.

i. If an applicant has submitted information relative to the emission reductions, avoided emissions, or sequestered emissions for which the applicant is seeking certification under 310 CMR 7.00: *Appendix B*(7) to any other certification system, registry or inventory, then the applicant shall submit a copy of such information with its application for certification of GHG Credit in Massachusetts. The applicant shall state the status of its submittal to such other certification system, registry or inventory.

ii. If an applicant for GHG Credit fails to comply with 310 CMR 7.00: *Appendix* B(7)(e)4.g.i., then the Department may deny any GHG Credit applied for and void any GHG Credits that may have been approved. GHG Credits shall be voided in cases where the GHG Credit is found to have been used for a purpose other than those specified in 310 CMR 7.00: *Appendix* B(7).

h. GHG Credit certification and verification applications shall contain a description of potential project leakage, and describe how such leakage was or will be monitored and avoided. The Department shall void GHG Credits to the extent of any leakage that has been identified.

i. GHG Credit applications shall document the negotiated or anticipated price per ton of GHG Credit applied for.

6. Conditions of GHG Credit Certification and Verification Approvals.

a. The Department may approve, approve with conditions, or deny GHG Credit applications.

b. The Department may require applicants to implement compliance assurance methods such as testing, monitoring, recordkeeping and reporting as part of the GHG Credit certification and verification approval.

c. The Department may consider scientific uncertainty and the extent to which a project may be harmful to the environment or public health when certifying or verifying GHG Credits.

(f) Public participation procedures for certification and verification applications pursuant to 310 CMR 7:00: *Appendix B*(7).

1. The Department shall publish, at the applicant's expense, a notice of public comment on a proposed approval, conditional approval, or disapproval. The Department will allow a 30-day public comment period following publication of the notice, and may hold a public hearing. After the close of the public comment period, the Department will issue a final decision.

2. 310 CMR 7.00: *Appendix B*(7)(f) shall apply to applications for certification and verification pursuant to 310 CMR 7.00: *Appendix B*(7), instead of the procedures under 310 CMR 7.00: *Appendix B*(6).

3. The public participation procedures of 310 CMR 7.00: *Appendix B*(7)(f) and 310 CMR 7.00: *Appendix B*(6) shall not apply to applications for use pursuant to 310 CMR 7.00: *Appendix B*(7)(I)5.

(g) <u>Use and Purchase of GHG Credits</u>.

1. To the extent that affected facilities use GHG Credits to comply with 310 CMR 7.29(5)(a)5, only GHG Credits verified under 310 CMR 7.00: *Appendix B*(7) may be used.

2. GHG Credits that have been used to satisfy any GHG liability or requirement other than 310 CMR 7.29, with the exception of requirements to disclose environmental and other attributes of electricity generation, shall not be eligible for use to comply with the requirements of 310 CMR 7.29.

3. Any person who purchases a GHG Credit from any source shall report the price paid per GHG Credit to the Department within 30 days of purchase.

5. Nothing in 310 CMR 7.00: Appendix B(7) or 310 CMR 7.29(5)(a)5. shall be construed to limit the authority of the Department to terminate, void, or limit GHG Credits that have been certified or verified.

6. If the Department determines that any emission reductions, avoided emissions, or sequestered emissions used to generate GHG Credits are not real, additional, verifiable, permanent, or enforceable as defined in 310 CMR 7.00: *Appendix B*(7)(b), such GHG Credits shall become void.

7. Any affected facility using voided GHG Credits shall replace the voided GHG Credits with an equivalent amount of valid GHG Credits and shall demonstrate compliance with this provision within one year of the date that the Department determines that such GHG Credits are void.

8. Violations of the requirements, for purposes of 310 CMR 7.00: *Appendix B*(7), may be enforced against the affected facility, any person who applied for certification or verification of GHG Credits, or any combination thereof. Nothing in 310 CMR 7.00: *Appendix B*(7) shall limit the ability of the Department to take enforcement action for violations of 310 CMR 7.29 or 310 CMR 7.00: *Appendix B*(7).

(h) Exchange of GHG Credits for CO₂ Budget Trading Program CO₂ Allowances.

1. <u>Eligibility</u>. GHG Credits shall be eligible for exchange with CO_2 Budget Trading Program CO_2 Allowances provided:

a. The project from which the GHG Credits were derived is not an offset project type listed under 310 CMR 7.70(10)(c)1.a.

b. The GHG Credits were not created from allowances or credits from another carbon constraining program.

c. An administratively complete application for certification of GHG Credits was submitted to the Department no later than January 25, 2008. The Department shall have sole discretion to determine whether an application for certification of GHG Credits is administratively complete.

2. <u>Verification Deadline</u>. GHG Credits may be created for emissions reduced, avoided, or sequestered up to and including December 31, 2012, provided:

a. The GHG Credits meet the requirements of 310 CMR 7.00: *Appendix B*(7)(h)1.; and

b. An administratively complete application for verification is submitted to the Department no later than March 31, 2013. The Department shall have sole discretion to determine whether an application for verification of GHG Credits is administratively complete.

3. Exchange.

a. At any time after January 1, 2009 and prior to December 1, 2013, any person may apply to the Department for CO_2 Budget Trading Program CO_2 Allowances in exchange for GHG Credits that meet the requirements of 310 CMR 7.00: *Appendix* B(7)(h)1. and 2. and which have been verified by the Department pursuant to 310 CMR 7.00: *Appendix* B(7)(e) and (f).

b. The Department shall exchange one CO_2 Budget Trading Program CO_2 allowance set aside pursuant to 310 CMR 7.70(5)(c)1.a. for every two GHG Credits provided to the Department pursuant to 310 CMR 7.00: *Appendix B*(7)(h)3.a.

c. The Department shall retire all GHG Credits exchanged for CO_2 Budget Trading Program CO_2 Allowances.

(i) <u>Procedures for Verification and Use of EU ETS Phase II Allowances and CDM CERs</u> that are Eligible for Use Under Phase II of the EU ETS.

1. <u>Eligibility</u>. Provided the geographic scope is expanded beyond the United States and its coastal waters pursuant to 310 CMR 7.00: *Appendix B*(7)(d)4. or 6., the following are eligible to be used to demonstrate compliance with the CO₂ emissions standards of 310 CMR 7.29(5)(a)5. provided they have been verified.

- a. EU ETS Phase II allowances; and,
- b. CDM CERs provided that:
 - i. The CDM CERs are acceptable and valid for use in Phase II of the European Union Emissions Trading Scheme at the time of application for verification; ii. The CDM CERs were not created for a project type listed under 310 CMR 7.00: *Appendix B*(7)(d)2.; and
 - iii. The CDM CERs are permanent.

2. For purposes of 310 CMR 7.00: *Appendix B*(7), EU ETS Phase II Allowances and CDM CERs that are eligible for use under Phase II of the EU ETS are presumed to be certified GHG emission reductions, avoided emissions, or sequestered emissions.

3. Applications for verification shall be submitted in a form determined by the Department and shall include but not be limited to:

a. Name of the allowances and credits;

- b. Name of the regulatory scheme and issuing body of the allowances or credits;
- c. Where applicable, the type of project for which the CDM CERs were created;
- d. Serial numbers of the allowances and credits;
- e. Total tons of CO_{2e} represented by the allowances and credits;
- f. Demonstration that the CDM CERs are acceptable and valid for use with Phase
- II of the EU ETS at the time of application for verification;
- g. Identification of the owner of the allowances and credits;

h. Certification by the relevant regulatory body that the allowances and credits have been issued;

i. The price paid, or to be paid, for such allowances or credits.

4. Applications for verification shall be for not less than 20,000 tons CO_{2e} , or 18,144 metric tons CO_{2e} .

5. Applications to use verified EU ETS Phase II Allowances and verified eligible CDM CERs for compliance with the CO_2 emission standards in 310 CMR 7.29(5)(a)5., shall be submitted in a form determined by the Department and shall include but not be limited to a demonstration and certification that the allowances or credits were cancelled to prevent their use for any other regulatory or voluntary purposes other than for compliance with 310 CMR 7.29(5)(a)5.

- a. This demonstration shall include but not be limited to:
 - i. Evidence that the allowance or credit was actually purchased;

ii. A legal document or other written statement issued by the relevant regulatory body that the allowances and credits have been cancelled; and,

iii. Evidence that the allowance or credit has not and cannot be used for any other regulatory or voluntary program.

b. The certification statement shall be signed under the pains and penalties of perjury by a Responsible Official of the affected facility and the entity that cancelled the allowance or credit (if not the affected facility).

6. <u>Application Deadlines</u>.

a. Administratively complete applications submitted pursuant to 310 CMR 7.00: *Appendix* B(7)(i)3. shall be submitted to the Department no later than March 31, 2009.

b. Administratively complete applications submitted pursuant to 310 CMR 7.00: *Appendix B*(7)(i)5. shall be submitted to the Department no later than June 30, 2009. c. The Department shall have sole discretion to determine whether applications submitted pursuant to 310 CMR 7.00: *Appendix B*(7)(i)3. or 5. are administratively complete.

7. The Department will make a finding regarding the administrative completeness for applications submitted pursuant to 310 CMR 7.00: *Appendix B*(7)(i) within 15 business days of submittal, and will make a consistency determination within 30 days of its finding that an application is administratively complete.

8. The Department may approve, approve with conditions, or deny applications submitted pursuant to 310 CMR 7.00: *Appendix* B(7)(i)3. or 5.

9. Verified cancelled allowances or credits are not GHG Credits under 310 CMR 7.00: *Appendix B*(7) and cannot be transferred, exchanged pursuant to 310 CMR 7.00: *Appendix B*(7)(h), or used for any purpose other than compliance with the CO₂ emissions standards of 310 CMR 7.29, or by any entity other than the affected facility that submitted an application pursuant to 310 CMR 7.00: *Appendix B*(7)(i)3. and 5.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

NON-TEXT PAGE

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

APPENDIX C: OPERATING PERMIT AND COMPLIANCE PROGRAM

(1) <u>Definitions</u>: Terms used in 310 CMR 7.00: *Appendix C* are defined at 310 CMR 7.00: *Definitions* or in 310 CMR 7.00: *Appendix C*. Where a term is defined in both 310 CMR 7.00: *Definitions* and in 310 CMR 7.00: *Appendix C*, the definition in 310 CMR 7.00: *Appendix C* is applicable.

Affected Source means a source that includes one or more affected units.

Affected State means any state:

- (a) Whose air quality may be affected and is contiguous to Massachusetts; or
- (b) Which is located within 50 miles of a facility subject to the operating permit and compliance program in Massachusetts.

<u>Affected Unit</u> means a fossil fuel fired combustion device subject to the emission reduction requirements or limitations under Title IV (Acid Rain) of 42 U.S.C. 7401.

<u>Allowance</u> means an authorization by the Administrator of the United States Environmental Protection Agency (EPA) under the Acid Rain Program, to emit up to one ton of sulfur dioxide during or after a specified calendar year.

<u>Applicable Requirement</u> means all of the following as they apply to emissions units or control equipment in a facility subject to the requirements of 310 CMR 7.00: *Appendix C*. This includes requirements that have been promulgated or approved by EPA through rule making at the time of issuance but have future-effective compliance dates:

(a) Any standard or other requirement provided for in the applicable implementation plan, contained at 310 CMR 7.00 approved or promulgated by EPA through rulemaking under 42 U.S.C. 7401, Title I that implements the relevant requirements of 42 U.S.C. 7401, including any revisions to that plan promulgated in 40 CFR Part 52;

(b) Any term or condition of any approval issued by the Department pursuant to any regulation under 310 CMR 7.00 which has been approved or promulgated through rulemaking under 42 U.S.C. 7401, Title I, including parts C or D (310 CMR 7.00: *Appendix A* or 40 CFR 52.21 PSD approvals), of 42 U.S.C. 7401;

(c) Any standard or other requirement under 42 U.S.C. 7401, The Clean Air Act, § 111, including § 111(d) (New Source Performance Standards (NSPS));

(d) Any standard or other requirement under 42 U.S.C. 7401, The Clean Air Act, § 112, including any requirement concerning accident prevention under 42 U.S.C. 7401, The Clean Air Act, § 112(r)(7) (National Emission Standard for Hazardous Air Pollutants (NESHAPS));

(e) Any standard or other requirement of the acid rain program under Title IV of 42 U.S.C. 7401 or the regulations promulgated thereunder;

(f) Any requirement(s) established pursuant to 42 U.S.C. 7401, § 504(b) (monitoring and analysis) or § 114(a)(3) (enhanced monitoring 40 CFR Part 64 regulations);

(g) Any standard or other requirement governing solid waste incineration, under 42 U.S.C. 7401, The Clean Air Act, § 129;

(h) Any standard or other requirement for consumer and commercial products, under 42 U.S.C. 7401, The Clean Air Act § 183(e);

(i) Any standard or other requirement for tank vessels under 42 U.S.C. 7401, The Clean Air Act, § 183(f);

(j) Any standard or other requirement of the program to control air pollution from outer continental shelf sources, under 42 U.S.C. 7401, § 328;

(k) Any standard or other requirement of the regulations promulgated to protect stratospheric ozone under 42 U.S.C. 7401, Title VI, unless the EPA has determined that such requirements need not be contained in an operating permit;

(1) Any national ambient air quality standard or increment or visibility requirement under 42 U.S.C. 7401, Title I, part C but only as it would apply to temporary sources permitted pursuant to 42 U.S.C. 7401, § 504(e); and

(m) Any other standard or requirement contained in 310 CMR 7.00 that has not been approved or promulgated by EPA through rulemaking under 42 U.S.C. 7401, Title I. These applicable requirements would be listed as a "state only" enforceable provision of an operating permit.

<u>Carbon Dioxide Equivalent</u>, or $\underline{CO}_2 e$, means the amount of GHG emitted by a facility, computed by multiplying the mass amount of emissions in tons per year for each of the six greenhouse gases in the pollutant GHG, by each gas's associated global warming potential set forth in 40 CFR part 98 subpart A Table A-1 - Global Warming Potentials, and summing the resultant value for each to compute tons per year $CO_2 e$.

<u>Complete Application</u> means an application, filed on form(s) specified by the Department, that is completed consistent with the criteria set forth in the instructions for the application form(s). To be deemed complete, an application must provide all information required pursuant to 310 CMR 7.00: *Appendix* C(5)b., except that applications for permit modifications or amendments need supply such information only if it is related to the proposed change. Information submitted must be sufficient to evaluate the subject source(s) and its application; and to determine all applicable requirements, and shall be submitted over the signature of a responsible official who certifies the submitted information is in accordance with 310 CMR 7.00: *Appendix* C(5)(b)9. and (5)(c). The source(s)' ability to operate without a permit, as set forth in 310 CMR 7.00: *Appendix* C(11) (application shield), shall be in effect from the date the application is determined or deemed to be complete until the final permit is issued, provided that the applicant submits any requested additional information by the deadline specified by the Department.

<u>Designated Representative</u> shall have the meaning given to it in 42 U.S.C. 7401, § 402(26) and the regulations promulgated thereunder.

<u>Draft Permit</u> means the version of an operating permit which is released for an opportunity for comment by the public, EPA or an affected state in compliance with 310 CMR 7.00: *Appendix* C(6)(a) prior to the Department's final decision on an operating permit application.

<u>Emergency</u> means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation would require immediate corrective action to restore normal operation, and that causes the source to exceed a technologybased emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, operator error or decision to keep operating despite knowledge of any of these things.

<u>Emissions Unit(s)</u> means any part or activity of a facility that emits or has the potential to emit any regulated air pollutant or any pollutant listed under 42 U.S.C. 7401, the Clean Air Act, § 112(b). This term is not meant to alter or affect the definition of the term "unit" for purposes of 42 U.S.C. 7401, Title IV (the acid rain provisions). Further clarification of the scope of "emission unit(s)" is provided by the Department by policy.

<u>Emissions Allowable Under the Permit</u> means a federally enforceable permit term or condition determined at issuance to be required by an applicable requirement that establishes an emissions limit (including a work practice standard), or a federally enforceable emissions cap.

<u>Facility</u> means any installation or establishment and associated equipment, located on the same, adjacent or contiguous property, capable of emissions and are under control of the same person.

<u>Final Operating Permit</u> means the version of an operating permit issued by the Department that has completed all review procedures required by 310 CMR 7.00: *Appendix C* including EPA review.

<u>Fugitive Emissions</u> are those emissions which could not reasonably pass through a stack, chimney, vent, or other functionally-equivalent opening.

<u>General Operating Permit</u> means a standardized operating permit that the Department may make applicable to numerous similar operation(s) or facilities under 310 CMR 7.00: *Appendix C*(15).

<u>GHG Mass Basis</u> means the sum of the mass amount of emissions in tons per year of the six greenhouse gases in the pollutant GHG prior to multiplying by each gas's associated global warming potential set forth in 40 CFR part 98 subpart A Table A-1 - *Global Warming Potentials*.

<u>Greenhouse Gas (GHG)</u> means the air pollutant that is the aggregate of the group of six gases: Carbon dioxide (CO₂), Methane (CH₄), Nitrous oxide (N₂O), Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs), and Sulfur hexafluoride (SF₆).

<u>Hazardous Air Pollutant (HAP)</u> means an air contaminant listed by EPA as a HAP, pursuant to 42 U.S.C. 7401, § 112. That list is incorporated by reference in 310 CMR 7.00: *Appendix C*, together with all amendments and supplements thereto. A copy of the list is available from the Department.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

NON-TEXT PAGE

<u>Laboratory Hoods</u> means a boxlike non-production structure intended for placement on a table or bench; the bench and the hood may be one integral structure. The opening(s) is provided with a sash or sashes that move vertically or horizontally to close the opening(s). Provisions are made for exhausting air from the top or back of the hood, and adjustable internal baffles are provided to obtain air flow distribution across the open face(s). Laboratory hoods may include those used for special purposes such as, but not limited to, capturing gases from equipment such as atomic absorption, gas chromatograph, liquid pouring or mixing stations and heat sources. It may additionally include floor mounted hoods with sash and/or doors for closing the open face.

<u>Major Source</u> means any stationary source (or any group of stationary sources that are located on one or more contiguous or adjacent properties, and are under common control of the same person (or persons under common control)) belonging to a single major industrial grouping and that are described in 310 CMR 7.00: *Appendix C* <u>Major Source</u>. For the purpose of defining "major source," a stationary source or group of stationary sources shall be considered part of a single industrial grouping if all of the pollutant emitting activities at such source or group of sources on contiguous or adjacent properties belong to the same Major Group (*i.e.*, all have the same two-digit code) as described in the Standard Industrial Classification Manual, 1987. Notwithstanding the previous statement, for the purpose of determining major source under 42 U.S.C. 7412, The Clean Air Act, §112, all hazardous air pollutants as defined under 42 U.S.C. 7412, The Clean Air Act, §112 shall be summed regardless of the SIC code classification of the process emitting said pollutant(s).

- (a) A major source under 42 U.S.C. 7401, The Clean Air Act § 112 which is defined as:
 - 1. For pollutants other than radionuclides, any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit, in the aggregate, ten tons per year (tpy) or more of any hazardous air pollutant which has been listed pursuant to 42 U.S.C. 7401, The Clean Air Act, § 112(b), 25 tpy or more of any combination of such hazardous air pollutants, or such lesser quantity as the Administrator may establish by rule. Notwithstanding the preceding sentence, emissions from any oil or gas exploration or production well (with its associated equipment) and emissions from any pipeline compressor or pump station shall not be aggregated with emissions from other similar units, whether or not such units are in a contiguous area or under common control, to determine whether such units or stations are major sources; or

2. For radionuclides, "major source" shall have the meaning specified by the Administrator by rule.

(b) A major stationary source of air pollutants, as defined in 42 U.S.C. 7602, The Clean Air Act, § 302, that directly emits or has the potential to emit, 100 tpy or more of any air pollutant (including any major source of fugitive emissions of any such pollutant, as determined by rule by the Administrator). The fugitive emissions of a stationary source shall not be considered in determining whether it is a major stationary source for the purposes of 42 U.S.C. 7602, The Clean Air Act, § 302(j), unless the source belongs to one of the following categories of stationary source:

- 1. Coal cleaning plants (with thermal dryers);
- 2. Kraft pulp mills;
- 3. Portland cement plants;
- 4. Primary zinc smelters;
- 5. Iron and steel mills;
- 6. Primary aluminum ore reduction plants;
- 7. Primary copper smelters;
- 8. Municipal incinerators capable of charging more than 250 tons of refuse per day;
- 9. Hydrofluoric, sulfuric, or nitric acid plants;
- 10. Petroleum refineries;
- 11. Lime plants;
- 12. Phosphate rock processing plants;
- 13. Coke oven batteries;
- 14. Sulfur recovery plants;
- 15. Carbon black plants (furnace process);
- 16. Primary lead smelters;
- 17. Fuel conversion plant;
- 18. Sintering plants;
- 19. Secondary metal production plants;

20. Chemical process plants;

21. Fossil-fuel boilers (or combination thereof) totaling more than 250 million British thermal units per hour heat input;

22. Petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels;

- 23. Taconite ore processing plants;
- 24. Glass fiber processing plants;
- 25. Charcoal production plants;

26. Fossil-fuel-fired steam electric plants of more than 250 million British thermal units per hour heat input; or

27. All other stationary source categories regulated by a standard promulgated under 42 U.S.C. 7411 and 7412, The Clean Air Act, §§ 111 and 112.

(c) A major stationary source as defined in 42 U.S.C. 7401, Title I, part D, including:

1. For ozone non attainment areas, sources with the potential to emit 100 tpy or more of volatile organic compounds or oxides of nitrogen in areas classified as "marginal" or "moderate," 50 tpy or more in areas classified as "serious," 25 tpy or more in areas classified as "serient," except that the references in this paragraph to 100, 50, 25, and ten tpy of nitrogen oxides shall not apply with respect to any source for which the Administrator has made a finding, under 42 U.S.C. 7401, The Clean Air Act, § 182(f)(1) or (2), that requirements under 42 U.S.C. 7401, The Clean Air Act, § 182(f) do not apply;

2. For ozone transport regions established pursuant to 42 U.S.C. 7401, The Clean Air Act, § 184 sources with the potential to emit 50 tpy or more of volatile organic compounds;

- 3. For carbon monoxide non attainment areas:
 - a. that are classified as "serious," and

b. in which stationary sources contribute significantly to carbon monoxide levels as determined under rules issued by the Administrator, sources with the potential to emit 50 tpy or more of carbon monoxide; and

4. For particulate matter (PM-10) non attainment areas classified as "serious," sources with the potential to emit 70 tpy or more of PM-10.

<u>Operating Permit</u> means any permit or group of permits covering emission unit(s) at a facility subject to the permitting requirement of 310 CMR 7.00: *Appendix C* that is issued, renewed, amended or revised pursuant to 310 CMR 7.00: *Appendix C*.

<u>Permit Modification</u> means a revision to any operating permit issued under 310 CMR 7.00: *Appendix C* that does not meet the requirements for an administrative amendment.

<u>Proposed Permit</u> means the version of a permit that the Department proposes to issue and forwards to the EPA for review in compliance with 310 CMR 7.00: *Appendix C*(6) and 40 CFR 70.8.

Regulated Air Pollutant means the following:

(a) Nitrogen oxides or any volatile organic compound;

(b) Any pollutant for which a national ambient air quality standard has been promulgated;
(c) Any pollutant that is subject to any standard promulgated under 42 U.S.C. 7401, The Clean Air Act, § 111, New Source Performance Standard 40 CFR Part 60;

(d) Any Class I or II substance subject to a standard promulgated under or established by 42 U.S.C. 7401, Title VI; or

(e) Any pollutant subject to a standard promulgated under 42 U.S.C. 7401, The Clean Air Act, § 112, National Emissions Standards for Hazardous Air Pollutants, 40 CFR Part 61, or other requirements established under 42 U.S.C. 7401, The Clean Air Act, § 112, including \$ 112(g), (j), and (r), including the following:

1. Any pollutant subject to requirements under 42 U.S.C. 7401, § 112(j). If the EPA fails to promulgate a standard by the date established pursuant to 42 U.S.C. 7401, The Clean Air Act, § 112(e), any pollutant for which a subject source would be major shall be considered to be regulated on the date 18 months after the applicable date established pursuant to 42 U.S.C. 7401, The Clean Air Act, § 112(e); and

2. Any pollutant for which the requirements of 42 U.S.C. 7401, § 112(g)(2) have been met, but only with respect to the individual source subject to 42 U.S.C. 7401, § 112(g)(2) requirement.

<u>Renewal</u> means the process by which a permit can be reissued at the end of its term or earlier should the Department determine a modification meets the requirements of renewal.

<u>Responsible Official</u> means one of the following:

(a) For a corporation: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:

1. the facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars); or

2. the delegation of authority to such representative is approved in advance in writing by the Department;

(b) For a partnership or sole proprietorship: a general partner or the proprietor, respectively; (c) For a municipality, State, Federal, or other public agency: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (*e.g.*, a Regional Administrator of EPA); or

(d) For affected sources:

1. The designated representative insofar as actions, standards, requirements, or prohibitions under 42 U.S.C. 7401, Title IV or the regulations promulgated thereunder are concerned; and

2. The designated representative for any other purposes under 310 CMR 7.00: Appendix C(4).

<u>Section 502(b)(10) Changes</u> are changes that contravene an expressed operating permit term but would not violate any applicable requirement(s) or contravene federally enforceable permit term(s) and condition(s) that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements.

<u>Stationary Source</u> means any building, structure, facility, or installation that emits or may emit any regulated air pollutant or any pollutant listed under 42 U.S.C. 7401, § 112(b). "Building, structure, facility, or installation" means all of the pollutant-emitting activities which belong to the same industrial grouping, are located on one or more contiguous or adjacent properties, and are under the control of the same person.

<u>Timely</u> means, with respect to an application for an operating permit or permit revision, in accordance with a time frame as set forth in 310 CMR 4.00: *Timely Action Schedule and Fee Provisions* and 7.00: *Appendix C*.

(2) <u>Applicability</u>.

(a) 310 CMR 7.00: *Appendix C* applies to any facility which:

1. emits or has federal potential emissions, in the aggregate, including from exempt and insignificant activities, of any regulated air pollutant in an amount which equals or exceeds any one of the following: 50 tons per year of VOC; 50 tons per year of NO_x; ten tons per year of any hazardous air pollutant (HAP) subject to 42 U.S.C. 7401 § 112, 25 tons per year of any combination of HAPs; or 100 tons per year of any other regulated air pollutant, excluding GHGs; or

2. is subject to a standard or other requirements under 42 U.S.C. 7401, § 112 (NESHAPS), except that a facility is not required to obtain a permit solely because it is subject to the regulation or requirements under 42 U.S.C. 7401, § 112(r) (accidental release); or

3. is subject to a New Source Performance Standard (NSPS), including an area source requirement, or other requirements under 42 U.S.C. 7401, § 111; or

4. is an affected source as defined in 42 U.S.C. 7401, Title IV (acid rain provisions); or 5. is in any other source category designated by the EPA pursuant to 40 CFR, § 70.3(a)(5) or pursuant to a rulemaking under 42 U.S.C. 7401, §§ 111 or 112 where EPA promulgates a standard for a source category and EPA determines not to exempt any or all non-major sources subject to that standard from the requirement to obtain an operating permit.

(b) Any non-major source for which an operating permit is required under 310 CMR 7.00: *Appendix C*(2)(a)2. through 3., which is not an affected source under 42 U.S.C. 7401, Title IV or a solid waste incineration unit required to obtain a permit pursuant to 42 U.S.C. 7401, § 129(e), is deferred from the obligation to obtain an operating permit until such time as the Department and EPA complete a rulemaking, including a rule making by EPA under 42 U.S.C. 7401, §§ 111 or 112, to determine how the operating permit program should be structured for non-major sources, and the appropriateness of any permanent exemptions. Notwithstanding the previous sentence, any non-major source which becomes subject to a rulemaking promulgated by EPA pursuant to 42 U.S.C. 7401 §§ 111 or 112 ("NSPS, NESHAPs or MACT") on or after July 21, 1992, where the rulemaking explicitly requires the source to obtain an operating permit, shall submit an operating permit application in accordance with the schedule established in that rulemaking. Where the rulemaking defers to the regulating authority, the application is due on the date that is one year after the date on which the source becomes subject to the rulemaking.

(c) Any source listed in 310 CMR 7.00: Appendix C(2)(b) deferred from the requirement to obtain a permit may elect to apply for an operating permit pursuant to 310 CMR 7.00: Appendix C.

(d) Notwithstanding 310 CMR 7.00: Appendix C(2)(a), a facility is not subject to this Appendix if the only applicable requirement which applies to the facility is:

1. A requirement pursuant to 40 CFR Part 60, Subpart AAA - Standards of Performance for New Residential Wood Heaters; or

2. A requirement pursuant to 40 CFR Part 61, Subpart M - National Emission Standard for Hazardous Air Pollutants for Asbestos, section 61.145, Standard for Demolition and Renovation.

(e) For the purpose of determining applicability under 310 CMR 7.00: *Appendix C*(2)(a), an owner or operator may elect to treat any part(s) of a facility used solely for research and development (R&D) operations, co-located with a major source, as a separate facility providing; 1) the SIC code for the R&D part of the facility differs from the rest of the facility; and 2) the relationship between the functions of the R&D part of the facility and the remainder of the facility does not involve support of the latter by the former.

(f) An owner or operator of a facility subject to 310 CMR 7.00: *Appendix C* may elect to be relieved from the requirement to obtain an operating permit under 310 CMR 7.00: *Appendix C*. To be eligible, one of the following must be complied with:

1. A source specific SIP revision which has been approved by EPA;

2. Restricted emission status issued pursuant to 310 CMR 7.02(9); or

3. A construction, substantial reconstruction or modification plan approval issued pursuant to 310 CMR 7.02(1) which limits the potential emissions of the total facility below the applicability thresholds stated at 310 CMR 7.00: Appendix C(2)(a); or

4. Operating in accordance with the requirements of 310 CMR 7.02(11).

(3) <u>General Provisions</u>.

(a) 1. On or before June 30, 1996, person(s) owning or operating a facility subject to the requirements of 310 CMR 7.00: *Appendix C* based upon their operations in calendar years 1990, 1991, 1992 or 1993, and not electing to comply with a federally approved option listed at 310 CMR 7.00: *Appendix C(2)(f)* shall enroll with the Department.

2. On or after July 1, 1996, any owner or operator of a facility shall automatically be enrolled when subject to 310 CMR 7.00: *Appendix C*.

(b) Any owner or operator of a facility subject to the requirements of 310 CMR 7.00: *Appendix C* shall submit a complete application for a permit according to time frames specified in 310 CMR 7.00: *Appendix C*(4)(a) and 310 CMR 4.00, and shall operate in compliance with the terms and conditions of a permit issued pursuant to 310 CMR 7.00: *Appendix C*.

(c) Permits shall be for a fixed term of five years in the case of affected sources, and for a term not to exceed five years in the case of all other facilities. Notwithstanding this requirement, permits for solid waste incineration units combusting municipal waste subject to standards under 42 U.S.C. 7401, § 129(e) shall be issued for a period not to exceed 12 years and reviewed by the Department at least every five years.

(d) No person shall cause, suffer, allow or permit the operation of any facility subject to 310 CMR 7.00: *Appendix C*:

1. Unless a timely and complete application for an operating permit or renewal has been submitted to the Department;

2. If the facility's operating permit has expired unless a timely and complete application pursuant to 310 CMR 7.00: *Appendix C*(4) has been submitted to the Department;

3. If the facility's operating permit has been revoked;

4. Unless all fees required pursuant to 310 CMR 4.00 have been remitted to the Department or waived by the Department in accordance with 310 CMR 4.00; and

5. If modified, unless the procedures in 310 CMR 7.00: *Appendix C*(7) and/or (8) as applicable, have been complied with.

(e) An initial operating permit, permit modification, or renewal may be issued only if all of the following conditions have been met:

1. A complete application for a permit, general permit, permit modification, or permit renewal has been received and reviewed by the Department;

2. Except for modifications qualifying for minor permit modification procedures under 310 CMR 7.00: *Appendix C*(8), the requirements for public participation contained in 310 CMR 7.00: *Appendix C*(6) have been complied with;

3. The requirements for notifying and responding to affected States under 310 CMR 7.00: *Appendix C*(6) has been complied with;

4. The conditions of the permit provide for compliance with all applicable requirements and the requirements of 310 CMR 7.00: *Appendix C*; and

5. The EPA has received a copy of the proposed permit and any notices required under 310 CMR 7.00: *Appendix C*(6), and has not objected to issuance of the permit within the time period specified therein.

(f) Any facility subject to 310 CMR 7.00: *Appendix C* and operating without an operating permit, or failing to comply with any of the terms of its operating permit; or any provision of 310 CMR 7.00: *Appendix C*; or any order issued by the Department pursuant to 310 CMR 7.00: *Appendix C*, shall be subject to enforcement pursuant to the Massachusetts General Laws and regulations promulgated thereunder.

(g) Each operating permit issued by the Department shall include provisions in accordance with the following:

1. Each operating permit shall include all applicable requirements, including any emissions limitations and standards and any operational requirements, and shall cite to the legal authority for each requirement. Each operating permit shall also identify any difference in form between the permit condition and the applicable requirement upon which the permit condition is based.

2. The operating permit shall specify the expiration date of the permit in accordance with 310 CMR 7.00: *Appendix* C(3)(c).

3. The operating permit shall require emissions monitoring and analysis procedures or test methods in accordance with 310 CMR 7.00: *Appendix* C(9).

4. The operating permit shall require recordkeeping and reporting in accordance with 310 CMR 7.00: *Appendix* C(10). The operating permit shall specify the format and time frequency for reporting to the Department all monitoring data and related supporting information in accordance with 310 CMR 7.00: *Appendix* C(10).

5. For a permittee subject to EPA's acid rain deposition control program pursuant to Title IV, 42 U.S.C. § 7651 et seq., the operating permit shall include and be consistent with the regulations in Title IV.

6. The operating permit shall include a severability clause to ensure the continued validity of the various operating permit requirements in the event of a challenge to any portions of the operating permit.

7. The operating permit shall include the following statements:

a. The permittee shall comply with all conditions of the operating permit including the approved compliance plan. Any noncompliance with a permit condition constitutes a violation of 310 CMR 7.00: *Appendix* C or 42 U.S.C. 7661 *et seq.*, and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of an operating permit renewal application.

b. A permittee in an enforcement action cannot use as a defense that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the operating permit.

c. The operating permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for an operating permit revision, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any operating permit condition.d. The operating permit does not convey any property rights of any sort, or any exclusive privilege.

e. All terms and conditions in an operating permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA and citizens under 42 U.S.C. 7661 *et seq*. Notwithstanding the preceding sentence, the Department shall specifically designate in the operating permit any terms and conditions that are not federally enforceable because the terms and conditions are not required under 42 U.S.C. 7661 *et seq*. or under any of its applicable requirements.

8. The operating permit shall require the permittee to pay fees to the Department consistent with the fee schedule pursuant to 310 CMR 4.00.

9. The operating permit shall contain terms and conditions for reasonably anticipated alternative operating scenarios as approved by the Department.

10. The operating permit shall include a provision stating that no operating permit revision shall be required, under any approved economic incentives program, marketable permits program, emissions trading program and other similar programs or processes, for changes that are provided for in the operating permit.

11. If the permittee has authorization for intra-facility emissions trading, the operating permit shall state the terms and conditions for the trading of emissions increases and decreases within the permitted facility in accordance with the requirements of 310 CMR 7.00: *Appendix* C(7)(b) or 310 CMR 7.00: *Appendix* B.

12. The operating permit shall include a statement that upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Department or an authorized representative to perform the following:

a. Enter upon the permittee's premises where an operating permit facility is located or emissions-related activity is conducted, or where records must be kept under the conditions of the operating permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the operating permit;

c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the operating permit; and

d. As authorized by 42 U.S.C.7661 *et seq.*, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the operating permit or applicable requirements.

13. The operating permit shall include requirements for <u>Compliance Certification</u> consistent with 310 CMR 7.00: *Appendix* C(5)(b)(9).

14. The operating permit shall include a schedule of compliance and a schedule for the submittal of progress reports, both approved by the Department, consistent with 310 CMR 7.00: *Appendix* C(5)(b)(8).

15. The operating permit shall state whether a permit shield is applicable pursuant to 310 CMR 7.00: *Appendix* (C)(12).

16. The operating permit shall contain provisions for emergency conditions in accordance with in 310 CMR 7.00: *Appendix* C(16).

17. The operating permit may include other provisions as required by the Department. (h) An operating permit does not convey any property right of any sort, or any exclusive privilege.

(i) An operating permit does not relieve any person from the obligation to comply with any other provision of 310 CMR 7.00 or to obtain any other necessary authorizations from other governmental agencies, or to comply with all other applicable Federal, State, or local rules and regulations, not addressed in their operating permit.

(j) All information submitted to the Department pursuant to the requirements of 310 CMR 7.00: *Appendix C* shall be public information except for that which the Department has designated confidential pursuant to the provisions of M.G.L. c. 111, § 142B and 40 CFR 70.4(b)(3) published in the Federal Register July 21, 1992, incorporated herein by reference. No permit shall in any case be designated confidential.

(k) The Department may issue a single permit authorizing emissions from similar operations by the same owner or operator at multiple temporary locations provided:

- 1. The operation is temporary;
- 2. The operation involves at least one change of location during the term of the permit;
- 3. The temporary source is not an affected source; and

4. The conditions of approval for operation of the temporary source assure compliance with:

- a. All applicable requirements at all authorized locations;
- b. All other provisions of 310 CMR 7.00: Appendix C; and
- c. The requirement that the Department be notified at least ten days in advance of each change in location in writing.

(1) If an additional applicable requirement becomes applicable to the facility, or an applicable requirement which was previously applicable to the facility changes, the facility shall act to have the new applicable requirement or the change incorporated into the operating permit, in accordance with the procedures set forth in 310 CMR 7.00: Appendix C(14)(a).

(m) The Department may terminate an operating permit upon request of the responsible official of said facility.

(n) The Department hereby adopts and incorporates by reference the provisions of the acid rain program 40 CFR part 72, as in effect on January 11, 1993 and as amended March 23, 1993, October 24, 1997, and 40 CFR Part 76 as in effect on September 1, 1998, for purposes of implementing an acid rain program that meets the requirements of 42 U.S.C. 7401, Title IV. The term <u>permitting authority</u> shall mean the Department and the term <u>Administrator</u> shall mean the Administrator of the United States Environmental Protection Agency.

(o) If the provisions or requirements of 40 CFR part 72 conflict with or are not included in 310 CMR 7.00: *Appendix C*, the part 72 provisions and requirements shall apply and take precedence.

(4) <u>Application Submittal Time Lines for Operating Permits</u>.

(a) Schedule to submit an application for an operating permit.

1. On and after April 1, 1994 a complete operating permit application shall be submitted to the Department in accordance with the following schedule:

a. For <u>Restricted Emission Status (RES)</u> pursuant to 310 CMR 7.02(12) and 310 CMR 7.00: *Appendix C*(2)(f): a Restricted Emission Status application must be submitted, reviewed, and approved no later than the published timeline for submittal of the original operating permit application, or a renewal application unless otherwise agreed to by the Department in writing.

b. For a <u>Group A Source</u>, any facility subject to 310 CMR 7.00: *Appendix C* and not submitting an application under 310 CMR 7.00: *Appendix C*(4)(a)1.a., with operations classified under the Standard Industrial Classification Codes (major group) 49 or 51: no later than November 15, 1994 nor before October 1, 1994;

c. For a <u>Group B Source</u>, any facility subject to 310 CMR 7.00: *Appendix C* and not submitting an application under 310 CMR 7.00: *Appendix C*(4)(a)1.a., with operations classified under the Standard Industrial Classification Codes (major group) 22, 23, 25, 26, 27, 28, 30, 31, 36, 38, 97 or 99: no later than September 1, 1995 nor before July 1, 1995;

d. For a <u>Group C Source</u>, any facility subject to 310 CMR 7.00: *Appendix C* and not submitting an application under 310 CMR 7.00: *Appendix C*(4)(a)1.a., with operations classified under the Standard Industrial Classification Codes (major group) 01, 14, 20, 24, 29, 32, 33, 34, 35, 37, 39, 45, 50, 56, 63, 65, 70, 72, 80, 82, 86, 95 or other stationary sources not classified in Groups A or B: no later than November 15, 1995 nor before September 15, 1995.

2. For a facility subject to the requirements of 310 CMR 7.00: Appendix C and in operation prior to the effective date of 310 CMR 7.00: Appendix C, an application for an operating permit pursuant to 310 CMR 7.00: Appendix C shall be submitted in accordance with the schedule detailed in 310 CMR 7.00: Appendix C(4)(a)1, or other schedule established in writing by the Department and the facility, but in no case later than one year after approval by EPA of 310 CMR 7.00: Appendix C, the operating permit program.

3. For operating permit applications submitted in accordance with 310 CMR 7.00: *Appendix C*(4)(a)1. or 2., the Department shall take final action on all applications no later than three years after approval by EPA of 310 CMR 7.00: *Appendix C*, the operating permit program.

4. Applications for initial phase II acid rain permits shall be submitted by January 1, 1996 for sulfur dioxide, and by January 1, 1998 for nitrogen oxides. Operating permit applications for these sources must be submitted in accordance with the schedule detailed in 310 CMR 7.00: *Appendix C*(4)(a)1..

5. For new construction subject to the requirements of 310 CMR 7.00: Appendix C, an application for an operating permit shall be submitted no later than one year after commencement of operation. Where an operating permit issued pursuant to 310 CMR 7.00: Appendix C would be modified or amended as a result of this construction, the owner or operator must follow the procedures of 310 CMR 7.00: Appendix C(8) and the time lines contained in 310 CMR 7.00: Appendix C(4)(b). (NB: New facilities are encouraged to submit applications pursuant to 310 CMR 7.00: Appendix C concurrent with 310 CMR 7.02 applications.)

6. For construction, substantial reconstruction or alteration of any facility, which results in the facility being subject to the requirements of 310 CMR 7.00: *Appendix C*, the application for an operating permit shall be submitted to the Department no later than one year after the commencement of operation of the portion of the facility which made the facility subject to the program. (NB: Owners and operators are encouraged to submit applications concurrent with 310 CMR 7.02 application)

7. For a facility operating under 310 CMR 7.02(9) or 310 CMR 7.02(11) status, an operating permit application shall be submitted within six months of becoming subject to 310 CMR 7.00: *Appendix C*.

(b) Schedule for submittal of applications to amend, modify or renew an operating permit: 1. For a significant modification to an operating permit, a timely application is one that is submitted at least nine months prior to the planned modification. For significant modifications which have been reviewed and approved under 310 CMR 7.00, the construction or modification that has been reviewed and approved may commence, but may not operate, prior to final approval of the modification to the operating permit if the existing operating permit would prohibit such construction or change in operation. If the existing operating permit would not prohibit such construction or change in operation, then operations may commence prior to final approval of the modification to the operating permit.

2. For a minor modification to an operating permit, a timely application is one that is submitted concurrent with the planned modification.

3. For an administrative amendment to an operating permit, a timely application is one that is submitted concurrent with initiation of the proposed change.

4. For a renewal of an operating permit, a timely application shall be submitted at least six months prior to the expiration of the operating permit.

(c) Except for as provided in 310 CMR 7.00: *Appendix C*(4)(a)3., final action by the Department shall be taken on each operating permit application within:

1. 18 months of receipt of a complete application for an operating permit for new construction submitted after November 15, 1995

2. nine months of receipt of a complete application for a significant modification to an operating permit.

3. 90 days of receipt of a minor modification application to an operating permit or 15 days after the end of the EPA's 45 day review period under 310 CMR 7.00: *Appendix* C(6), whichever is later.

4. 15 days of receipt of an administrative amendment to an operating permit.

5. nine months of receipt of a complete application for renewal of an operating permit.

6. 120 days for group processing of minor modifications or 15 days after the end of EPA's 45-day review period under 310 CMR 7.00: *Appendix C*(6), whichever is later. 7. nine months of receipt of a complete application for an early reduction demonstration (40 CFR Part 63) under 42 U.S.C. 7401, § 112(i)(5).

(d) <u>Completeness Determination</u>.

1. The Department shall notify the applicant within 60 days of its receipt of the application for an initial operating permit, a significant modification or renewal as to whether the application is complete.

2. To be deemed complete, an application shall include all the information required by 310 CMR 7.00: *Appendix C*(5) and payment of the applicable fee pursuant to 310 CMR 4.10: *Appendix: Schedules for Timely Action and Application Fees.* A completeness determination shall not be required for a minor permit modification or an administrative amendment.

3. If the Department fails to notify the applicant within 60 days of the Department's receipt of an application that more information is needed, then the application shall be deemed complete and the applicant shall be afforded the application shield described at 310 CMR 7.00: *Appendix C*(11).

4. If, after a completeness determination, the Department requires additional information, it shall request such information in writing and set a deadline for its submittal. Departmental requests for additional information made after the application is deemed complete shall not, by themselves, indicate that the application is not complete. If however, the applicant fails to submit the requested information by a reasonable deadline specified or as otherwise agreed in writing by the Department, the application shall be considered incomplete and the applicant shall not have the application shield provided for under 310 CMR 7.00: *Appendix C*(11).

(5) General Application Requirements.

(a) Applications for an operating permit or renewal of an operating permit pursuant to 310 CMR 7.00: *Appendix C*, and any additional information required by the Department shall be submitted to the Department and EPA in a format prescribed by the Department. An applicant may not omit information needed to determine whether the facility is subject to any applicable requirement.

1. For any subject facility whose emissions exceed the thresholds of 310 CMR 7.00: *Appendix* C(2)(a)1, the application shall include all applicable requirements for all emissions units.

2. For any facility that contains an emission unit that causes the facility to be subject to 310 CMR 7.00: *Appendix* C(2)(b), the application shall include all applicable requirements for the emissions units that cause the facility to be subject to 310 CMR 7.00: *Appendix* C.

(b) Except as provided for in 310 CMR 7.00: *Appendix* C(5)(a)2. and (i), the following information must be submitted for each emission unit associated with the facility. Fugitive emissions shall be included in the permit application in the same manner as stack emissions, regardless of whether the source category in question is included in the list of sources contained in the definition of major source. Applications shall contain at a minimum:

1. Identifying information, including company name and address (or plant name and address if different from the company name); owner's name and telephone number; and name(s) and telephone number(s) of facility site manager/contact.

2. A description of the facility's processes and products (by Standard Industrial Classification Code) associated with each alternate scenario proposed in the application. 3. Except for insignificant activities listed in 310 CMR 7.00: *Appendix C*(5) the following emissions-related information:

a. All emissions of regulated air pollutants for which the emissions unit has an applicable requirement.

b. Identification and description of all points of emissions described in 310 CMR 7.00: *Appendix* C(5)(b)3.a. in sufficient detail to establish said applicable requirements.

c. Emissions rates in tons per year and in such terms as are necessary to establish compliance consistent with the applicable EPA standard reference emissions test method.

d. The following information to the extent it is needed to determine or regulate emissions: fuels, fuel use, raw materials, production rates, and operating schedules.e. Identification and description of air pollution control equipment and compliance monitoring devices or activities

f. Limitations on source operation affecting emissions or any work practice standards, where applicable, for all regulated pollutants at the source.

g. Other information required by any applicable requirement (including information related to stack height limitations developed pursuant to 42 U.S.C. 7401, The Clean Air Act, § 123).

h. Calculations on which the information in 310 CMR 7.00: Appendix C(5)(b)3.a. through g. is based.

4. For activities proposed to be exempt pursuant to 310 CMR 7.00: *Appendix C*(5)(h), a list describing each activity and its emissions.

5. The following air pollution control requirements:

a. Citation and description of all applicable requirements, and

b. Description of or reference to any applicable test method for determining compliance with each applicable requirement.

6. Other specific information that may be necessary to implement and enforce 310 CMR7.00: *Appendix C*(5)(b)2, (7) or other applicable requirements of 42 U.S.C. 7401 or to determine the applicability of such requirements including but not limited to terms and conditions for reasonably anticipated operating scenarios including:

a. Establishing and maintaining, contemporaneously with making a change from one operating scenario to another, a record in a log at the facility as to which scenario it is operating under; and

b. Documenting that the terms and conditions of each such alternative scenario meet all applicable requirements and the requirements of 310 CMR 7.00: *Appendix C*.

The permit shield described in 310 CMR 7.00: Appendix C(12) shall apply to all terms and conditions under each such operating scenario.

An explanation of any proposed exemptions from otherwise applicable requirements.
 A Compliance Plan that contains all the following:

a. A description of the compliance status of the facility with respect to all applicable requirements.

b. A description as follows:

(i) For applicable requirements with which the facility is in compliance, a statement that the source will continue to comply with such requirements.

(ii) For applicable requirements that will become effective during the permit term, a statement that the facility will meet such requirements on a timely basis.(iii) For requirements for which the source is not in compliance at the time of permit issuance, a narrative description of how the source will achieve compliance with such requirements.

c. A compliance schedule as follows:

(i) For applicable requirements with which the source is in compliance, a statement that the source will continue to comply with such requirements.

(ii) For applicable requirements that will become effective during the permit term, a statement that the source will meet such requirements on a timely basis. A statement that the source will meet in a timely manner applicable requirements that become effective during the permit term shall satisfy this provision, unless a more detailed schedule is expressly required by the applicable requirement.

(iii) A schedule of compliance for emissions units that are not in compliance with all applicable requirements at the time of permit issuance. Such a schedule shall include a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with any applicable requirements for which the facility will be in noncompliance at the time of permit issuance. This compliance schedule shall resemble and be at least as stringent as that contained in any judicial consent decree or administrative order to which the facility is subject. Any such schedule of compliance shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based.

d. A schedule for submission of certified progress reports no less frequently than every six months for sources required to have a schedule of compliance to remedy a violation.

e. The compliance plan content requirements specified in 310 CMR 7.00: Appendix C(5)(b)8.e. shall apply and be included in the acid rain portion of a compliance plan for an affected source, except as specifically superseded by regulations promulgated under 42 U.S.C. 7401, Title IV with regard to the schedule and method(s) the source will use to achieve compliance with the acid rain emissions limitations.

9. Requirements for <u>Compliance Certification</u>, including the following:

a. A certification of compliance with all applicable requirements by a responsible official consistent with 310 CMR 7.00: *Appendix C*(5)(b)9.c. and 42 U.S.C. 7401, § 114(a)(3);

b. A statement of methods used for determining compliance, including a description of monitoring, record keeping, and reporting requirements and test methods;

c. A schedule for submission of compliance certifications during the permit term, to be submitted no less frequently than annually, or more frequently if specified by the underlying applicable requirement or by the Department;

d. A statement indicating the facility's compliance status with any applicable enhanced monitoring and compliance certification requirements of 42 U.S.C. 7401; and

e. A statement accepting the Department's authority to enter the premises of the permitted facility and perform reasonable inspections and sampling, as described in 310 CMR 7.00: *Appendix C*(3)(g).

10. The use of nationally-standardized forms for acid rain portions of permit application(s) and compliance plan(s), as required by regulations promulgated under 42 U.S.C. 7401, Title IV.

(c) Any application form, report, or compliance certification submitted pursuant to 310 CMR 7.00: *Appendix C* shall contain certification by a responsible official of truth, accuracy, and completeness in accordance with 310 CMR 7.01(2).

(d) Any application for an initial, or renewal of an operating permit submitted to the Department pursuant to 310 CMR 7.00: *Appendix C* shall include the following:

1. For initial operating permits, copies of any preconstruction, substantial reconstruction or alteration approvals issued by the Department under 310 CMR 7.02;

2. For renewals of operating permits, the last complete operating permit application supplemented with all new information pertinent to the provisions of 310 CMR 7.00: *Appendix C*(5), (6) and (7), including any operational changes made pursuant to operational flexibility section, and any other proposed operational scenarios.

(e) Any person who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, an applicant shall provide additional information as necessary to address any requirements that become applicable to the source after the date it filed a complete application but prior to release of a draft permit.

(f) If any person fails to submit information requested by the Department within the deadlines provided, the Department may deny the application, and an application shield pursuant to 310 CMR 7.00: *Appendix C*(11) shall automatically terminate pursuant to 310 CMR 7.00: *Appendix C*(11)(f). Prior to denying the application, the Department shall provide 30 days written notice to the applicant, including a list of the required information. A person may reapply at any time after the application is denied. The re-application shall meet all requirements of a complete initial permit application, including any application fee. (g) In the event that a discrepancy exists between the information in an application for an operating permit and the requirements of the permit, the conditions of the permit shall prevail.

(h) Exempt Activities. Except as provided in 310 CMR 7.00: Appendix C(5)(i), any facility subject to the requirements of 310 CMR 7.00: Appendix C may propose to exempt certain activities from the requirements of 310 CMR 7.00: Appendix C(5)(b). A list of proposed exemptions must be submitted as part of the application. The Department will exempt the emission unit(s) if it is of a size eligible to comply with 310 CMR 7.02(8)(i) or to be exempt from preconstruction review and approval pursuant to 310 CMR 7.02(2)(b)7., 15., or 29. and not otherwise subject to an applicable requirement.

(i) <u>Insignificant Activities</u>. Notwithstanding 310 CMR 7.00: *Appendix C*(5)(h) any emission unit that is part of the following activities is exempt from the requirements of 310 CMR 7.00: *Appendix C*, except that emissions from these activities shall be included in determining federal potential to emit under 310 CMR 7.00: *Appendix C*(2):

1. Open burning conducted in accordance with the requirements of 310 CMR 7.07(2), (3)(a) and (3)(e);

2. Office activities and the equipment and implements used therein, such as typewriters, printers, and pens;

3. Interior maintenance activities and the equipment and supplies used therein, such as janitorial cleaning products and air fresheners; this does not include any cleaning of production equipment or activities regulated by 310 CMR 7.18;

4. Bathroom and locker room ventilation and maintenance;

5. Copying and duplication activities for internal use and for support of office activities at the facility;

6. The activities not regulated by 310 CMR 7.18 in maintenance shops, such as welding, gluing, soldering;

7. First aid or emergency medical care provided at the facility, including related activities such as sterilization and medicine preparation;

8. Laundry operations that service uniforms or other clothing used at the facility that are not regulated by 310 CMR 7.18;

9. Architectural maintenance activities conducted to take care of the buildings and structures at the facility, including repainting, reroofing, and sandblasting;

10. Exterior maintenance activities conducted to take care of the grounds of the facility, including parking lots and lawn maintenance;

11. Food preparation to service facility cafeterias and dining rooms;

12. The use of portable space heaters which reasonably can be carried and relocated by an employee;

13. Liquid petroleum gas (LPG) or petroleum fuels used to power the facility's mobile equipment and not otherwise regulated by the Department;

14. Emergency vents not subject to the accidental release regulations.

15. Non-process related surface coating and painting which exclusively use non-refillable aerosol cans;

16. Vacuum cleaning systems used exclusively for commercial or residential house-keeping;

17. Ventilating systems used exclusively for heating and cooling buildings, for the comfort of people living or working within the building serviced by said system, which EPA has determined need not be contained in an operating permit;

18. Ventilating and exhaust systems for laboratories, including hoods, used:

a. by academic institutions for academic purposes.

b. by hospitals and medical care facilities used for medical care purposes and medical research only.

c. by laboratories which perform laboratory scale activities as defined by OSHA, excluding commercial laboratories that provide laboratory services for third parties.d. by facilities for quality assurance and quality control testing and sampling activities.

19. surface coating and printing processes used exclusively for educational purposes in educational institution excluding those emission units regulated by 310 CMR 7.18; and 20. kilns or ventilating hoods for art or ceramic curricula at colleges, primary or secondary schools.

(6) <u>Permit Review by the Public, EPA and Affected States</u>.

(a) A draft of an operating permit (draft permit) and a statement that sets forth the legal and factual basis for the draft permit conditions (including references to the applicable regulatory provisions), shall be released to the public, EPA, the applicant and affected states by the Department for applications for an operating permit, a significant modification or renewal of an operating permit; and to EPA and affected states for minor permit modifications.

(b) For each draft initial operating permit, significant modification or renewal of an operating permit pursuant to 310 CMR 7.00: *Appendix C*(2), the Department shall:

1. Post on a public website identified by the Department (which may be the Department's own website), for the duration of the public comment period, the following:

a. A notice of availability of the Department's draft initial operating permit, significant modification or renewal of an operating permit and information on how to submit public comment;

b. The Department's draft initial operating permit, significant modification or renewal of an operating permit; and

c. Information on how to access the administrative record for the Department's draft initial operating permit, significant modification or renewal of an operating permit.

2. Give notice to persons on a mailing list developed by the Department using generally accepted methods (*e.g.*, hyperlink sign-up function or radio button on a Department website, sign-up sheet at a public hearing, *etc.*) that enable interested parties to subscribe to a mailing list. The Department may update the mailing list from time-to-time by requesting written indication of continued interest from those listed. The Department may delete from the list the name of any person who fails to respond to such a request within a reasonable timeframe.

- (c) The notice shall identify:
 - 1. The name and address of the facility;
 - 2. The name and address of the permittee;
 - 3. The name and address of the Department's regional office processing the permit;
 - 4. The activity or activities included in the permit action;
 - 5. The emissions change associated with any permit modification;

6. The name, address, and telephone number of a person (or an email or website address) from whom interested persons may obtain additional information, including copies of the draft permit, the application, all relevant supporting materials, and all other materials available that are relevant to the permit decision; and

7. A brief description of the comment procedures required by 310 CMR 7.00: *Appendix* C(6); and the time and place of any hearing that may be held, including a statement of procedures to request a hearing (unless a hearing has already been scheduled).

(d) The Department, on or before the publication of the public notice of a draft permit, shall also give notice of its intent to issue a draft permit to the head of the environmental program of any affected state.

(e) The Department shall provide a comment period of no less than 30 calendar days and no more than 60 calendar days on draft permits for an initial permit, significant modifications and renewals of operating permits.

(f) The Department based upon material issues or at its own initiative may hold a public hearing on a draft permit. For an initial operating permit issuance, renewal or significant modification to an operating permit, any person may request before the expiration of the public comment period specified pursuant to 310 CMR 7.00: *Appendix C*(6)(a), that the Department hold a public hearing (if the Department has not already scheduled a public hearing) on a draft permit, by submitting a written request stating the nature of the issues to be raised at a public hearing. Notice of any public hearing shall be given at least 30 days in

advance of the hearing and may be included in the notice issued pursuant to 310 CMR 7.00: *Appendix C*(6)(a) and by the procedures of 310 CMR 7.00: *Appendix C*(6)(b) and (c). (g) Whenever the Department determines to hold a public hearing, the duration of the public comment period shall automatically extend to the close of the public hearing. The hearing officer may further extend the comment period by announcing the extension and its duration at the public hearing.

(h) At a public hearing, the Department may:

- 1. Establish reasonable limits upon the time allowed for oral statements; and
- 2. Require the submission of statements in writing.

(i) The Department shall keep records of the comments and also of the issues raised during the public participation process so that EPA may fulfill its obligation under 42 U.S.C. 7401, § 505(b)(2) to determine whether a citizen petition should be granted, and such records shall be available to the public.

(j) After the close of the public comment period, the Department will forward to the EPA a proposed operating permit (proposed permit), together with other required supporting information pertaining to the proposed permit. NOTE: The Department as part of the submittal of the proposed permit to the EPA shall notify the EPA and any affected state in writing of any refusal by the Department to accept any recommendations on the draft permit that the affected state submitted during the draft permit review period. The notice shall include the Department's reason for not accepting any such recommendation; the Department is not required to accept recommendations that are not based on an applicable requirement or the requirements of 310 CMR 7.00: *Appendix C*.

(k) If EPA submits an objection to the proposed permit in writing, during the 45 day period following EPA's receipt of the proposed permit, the Department shall revise, and resubmit a proposed operating permit to the EPA. EPA shall send a copy of its objection to the applicant. The Department will not issue a final permit prior to the expiration of the 45-day period for EPA objection unless EPA notifies DEP of its intention not to object.

(1) If the Department fails, within 90 days after the receipt of an objection under 310 CMR 7.00: *Appendix C*(6)(k), to revise and submit a proposed permit in response to the objection, the EPA may issue or deny the permit in accordance with the requirements of the Federal Program promulgated under 42 U.S.C. 7401, Title V.

(m) If EPA does not object to the proposed permit, any person may petition the EPA during the 60 days after the expiration of the EPA's 45 day review period, and may request that EPA object.

1. The petition shall be based only on objections that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such objections within such period, or unless the grounds for such objection arose after such period.

2. If the EPA is convinced that such objection meets the criteria established in 310 CMR 7.00: *Appendix C*(6)(m)1., and objects, the Department shall not issue the operating permit until the EPA's objection is resolved.

3. If the Department has issued an operating permit prior to receipt of an EPA objection, the EPA may modify, terminate, or revoke the permit. The Department may thereafter issue only a revised permit that satisfies EPA's objection. In any case, the stationary source will not be in violation of the requirement to have submitted a timely and complete application.

(n) The Department shall transmit final operating permits to EPA.

(7) Operational Flexibility.

(a) <u>Section 502(b)(10) changes</u>

1. Any facility issued an operating permit may make Section 502(b)(10) changes through the procedures set forth in 310 CMR 7.00: *Appendix C*(7).

2. The Department shall attach the notice of the change to the operating permit, but shall not revise the operating permit until the next application for renewal.

3. If the requirements of 310 CMR 7.00: *Appendix* C(7) are met, the change may be made 15 days after receipt of the notice of the change by the Department or EPA whichever is later.

4. No change may be made pursuant to 310 CMR 7.00: *Appendix C*(7) if the change would:

a. violate an applicable requirement(s);

b. contravene a federally enforceable permit term(s) and condition(s) that is monitoring (including test methods), recordkeeping, reporting, or compliance certification;

c. is a modification under 42 U.S.C. 7401, Title I; or

d. is in excess of the emissions allowed under the operating permit (whether expressed therein as a rate of emissions or in terms of total emissions).

5. A responsible official must provide the Department and EPA with written notification at least 15 days in advance of the proposed changes. For each such change, the written notification required above shall include:

a. A brief description of the change within the permitted facility;

b. The date on which the change will occur;

c. Any change in emissions; and

d. Any permit term or condition that is no longer applicable as a result of the change.

6. The permit shield provided for under 310 CMR 7.00: *Appendix* C(12) shall not apply to changes made under 310 CMR 7.00: *Appendix* C(7).

(b) Intra-facility Emissions Trading.

1. Pursuant to a request from a responsible official in an operating permit application, the Department shall issue an operating permit that contains terms and conditions that allow for the trading of emissions increases and decreases within the permitted facility. The Department shall not include in these trading provisions any emissions units for which emissions are not quantifiable or for which there are no replicable procedures to enforce the emissions trades.

2. Any requests made under 310 CMR 7.00: *Appendix C*(7) are solely for the purposes of complying with the federally-enforceable emissions cap that is established in the permit independent of otherwise applicable requirement(s).

3. Emission trades may be implemented provided the Department and EPA are notified at least 15 business days in advance of the proposed changes. For each change, the following must be provided:

- a. A description of the change within the permitted facility;
- b. The date on which the change will occur;
- c. Any change in emissions; and

d. How these increases and decreases in emissions will comply with the terms and conditions of the permit.

4. The 15 day notice shall commence upon the receipt by the Department or EPA whichever is later.

5. The permit shield provided for under 310 CMR 7.00: Appendix C(12) shall apply to the permit terms and conditions that allow such increases and decreases in emissions.

6. Any intra-facility change that does not qualify pursuant to 310 CMR 7.00: Appendix C(7)(b)2. is required to be submitted to the Department pursuant to 310 CMR 7.00: Appendix B.

(8) Administrative Amendments, Minor Modifications and Significant Modifications.

(a) The following changes shall require a revision to an operating permit:

1. An Administrative Amendment, if the proposed change is:

a. A change in business name, division name, or facility name; mailing address; company stack designation; telephone number; or name of facility contact; or

b. A transfer of ownership of the facility for which an operating permit is in effect, where the Department determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the Department; or

c. A change to monitoring, reporting, recordkeeping, or testing requirements that is more frequent than previously specified in the operating permit; or

d. The Department, EPA or permittee determines that the operating permit contains typographical errors.

2. A <u>Minor Modification</u>, if the proposed change:

a. Does not violate any applicable requirements;

b. Does not involve a significant change to existing monitoring, reporting, or recordkeeping requirements in the permit;

c. Does not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis;

d. Does not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the facility has assumed to avoid an applicable requirement to which the facility would otherwise be subject; and

e. Is not a modification under any provision of 42 U.S.C. 7401, Title I.

3. A <u>Significant Modification</u> is a permit modification that does not qualify as a minor permit modification or as an administrative amendment, or is a significant change to any monitoring, reporting or recordkeeping requirements as required by any operating permit.

(b) <u>Processing an Administrative Amendment.</u> For an administrative amendment to an operating permit a timely and complete application is one filed on forms specified by the Department and in accordance with the timelines established at 310 CMR 7.00: *Appendix* C(4).

1. The Department shall take final action within 15 days of receipt of said application and may incorporate such changes without providing notice to the public or affected states. The Department shall submit a copy of the revised permit to EPA.

2. The source may make the change upon receipt by the Department of the proposed administrative amendment.

3. An administrative amendment for purposes of the acid rain portion of the operating permit shall be governed by 40 CFR part 72.

4. The permit shield provisions of 310 CMR 7.00: *Appendix C*(12) shall not apply to changes made under 310 CMR 7.00: *Appendix C*(8).

(c) <u>Processing a Significant Modification</u>. For a significant modification to an operating permit an application must be filed on forms specified by the Department and in accordance with the timelines established at 310 CMR 7.00: *Appendix C*(4), and shall:

1. Be subject to all of the same requirements as a new operating permit application including review by EPA, affected states and the public under 310 CMR 7.00: *Appendix* C;

2. Focus on the proposed significant modifications to the issued operating permit only;

3. A significant modification for purposes of the acid rain portion of the operating permit shall be governed by 40 CFR part 72; and

4. For significant modifications which have been reviewed and approved under 310 CMR 7.02(4) or (5), the construction, substantial reconstruction, or alteration may commence, but may not be operated if the existing operating permit would prohibit such construction or change in operation, during the period after receipt of the required significant modification application by the Department, but before the Department revises the operating permit. If the existing operating permit would not prohibit such construction or change in operation, then operations may commence prior to final approval of the modification to the operating permit. The permit shield provided under 310 CMR 7.00: *Appendix C*(12) applies to any changes resulting from such significant modification.

(d) <u>Processing a Minor Modification</u>. For a minor modification to an operating permit an application must be filed on forms specified by the Department and in accordance with the timelines established at 310 CMR 7.00: *Appendix C*(4).

1. An application requesting the use of minor permit modifications procedures shall include the following:

a. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;

b. The facility's suggested draft permit;

c. Certification by a responsible official that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and

d. Completed forms for the Department to use to notify the EPA and affected states. Said notification shall be made within five business days of receipt by the Department of a complete permit modification application.

2. A minor modification for purposes of the acid rain portion of the operating permit shall be governed by 40 CFR part 72.

3. The source may make the change upon receipt by the Department of the proposed modification.

4. The permit shield provisions of 310 CMR 7.00: *Appendix C*(12) shall not apply to changes made under 310 CMR 7.00: *Appendix C*(8).

(e) <u>Revisions to Operating Permit Not Required.</u> A revision to an operating permit is not required for increases in emissions that are authorized by allowances acquired pursuant to the Acid Rain program under Title IV, provided that such increases do not require an operating permit revision under any other applicable requirement.

(9) <u>Testing and Monitoring Requirements</u>.

(a) Any facility, for which an operating permit specifies testing and monitoring requirements shall do so in a manner and time as specified in the operating permit.

(b) Each operating permit shall contain the following monitoring requirements:

1. The permittee shall comply with all emissions monitoring and analysis procedures or test methods required under the applicable requirements, including those promulgated pursuant to 42 U.S.C. 7401, The Clean Air Act, §§ 504(a) and 504(b) or 114(a)(3);

2. If the applicable requirement does not require periodic testing or instrumental or noninstrumental monitoring (which may consist of recordkeeping designed to serve as monitoring), then the permittee shall perform periodic monitoring sufficient to yield reliable data from the relevant time period that is representative of the source's compliance with the permit. Such monitoring requirements shall assure use of terms, test methods, units, averaging periods, and other statistical conventions consistent with the applicable requirement. Recordkeeping provisions may be sufficient to meet the requirements; and

3. The permittee shall comply with requirements concerning the use, maintenance and installation of monitoring equipment or methods as the Department deems appropriate.

(c) Any facility required to install a continuous emissions monitor (CEM) shall install, calibrate, operate, certify and maintain the CEM to continuously measure and continuously record the required emissions and other data as specified in the operating permit.

(d) Any person required to perform monitoring shall maintain records of and report to the Department in accordance with the requirements established in the facility operating permit and 310 CMR 7.00: *Appendix C*(10).

(10) <u>Recordkeeping and Reporting Requirements</u>.

(a) Upon the Department's request, any record relevant to the operating permit or to the emissions of any air contaminant from the facility shall be submitted to the Department within 30 days of the request by the Department or within a longer time period, if approved in writing by the Department, and shall be transmitted on paper, on computer disk, or electronically at the discretion of the Department.

(b) The permittee shall maintain records of all monitoring data and supporting information on-site for a period of at least five years from the date of the monitoring sample, measurement, report or initial operating permit application. Supporting information includes, at a minimum, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the operating permit, and any other information required to interpret the monitoring data. Records required to be maintained shall include, where applicable:

- 1. The date, place as defined in the permit, and time of sampling or measurements;
- 2. The date(s) analyses were performed;
- 3. The company or entity that performed the analyses;
- 4. The analytical techniques or methods used;
- 5. The results of such analyses; and
- 6. The operating conditions as existing at the time of sampling or measurement.

(c) The permittee shall report a summary of all monitoring data and related supporting information to the Department at least every six months in a format and time frequency specified by the Department.

(d) Upon request, an owner or operator shall also furnish to the Department copies of records required to be kept by the operating permit or, for information claimed to be confidential, said person may furnish such records directly to the Department and EPA, along with a claim of confidentiality.

(e) The following shall be made readily available for inspection by the Department:

1. The operating permit together with any amendments thereto;

2. A diagram of the facility indicating the location of all equipment and control apparatus, any stack designation assigned by the Department, and any stack designation assigned by the facility;

3. Records documenting any and all use of any equipment, control apparatus, or other source operation including, but not limited to, the kind and amount of air contaminant emitted, rate of production and hours of operation, raw material throughput; and

4. Records documenting any construction, substantial reconstruction or alteration, including the dates thereof, of any equipment or control apparatus.

(f) The permittee shall promptly report to the Department all instances of deviations from permit requirements. This report shall include the deviation itself, including those attributable to upset conditions as defined in the permit, the probable cause of the deviation, and any corrective actions or preventive measures taken.

(g) For facilities permitted to operate under alternative operating scenarios, the permittee shall establish and maintain a log at the facility which indicates the scenario under which the facility is operating. The permittee shall record changes from one scenario to another contemporaneously with the change.

(h) All required reports must be certified by a responsible official consistent with 310 CMR 7.00: *Appendix* C(5)(c).

(11) Application Shield.

(a) An application shield provides that an owner or operator of a facility subject to 310 CMR 7.00: *Appendix C* shall not be subject to penalties for operating without an operating permit during the time the application shield is in effect.

(b) An application shield is in effect for an owner or operator of a facility subject to 310 CMR 7.00: *Appendix C* if:

1. A timely and complete application for an initial application or renewal of an operating permit has been submitted pursuant to 310 CMR 7.00: *Appendix C*(3)(a) (facility may continue to operate until the Department takes final action on the application); and

2. The applicant submits any information requested in writing by the Department within the timelines established.

(c) This application shield does not relieve an owner or operator of a facility subject to 310 CMR 7.00: *Appendix C* from complying with the terms and conditions of any operating permit or applicable requirement. For initial permit issuance, the application shield does not relieve an owner or operator of said facility from complying with any applicable state and federal laws and regulations.

(d) The submittal of a complete application shall not affect the requirement that any source have a preconstruction approval under 310 CMR 7.02 if applicable.

(e) In the event that the Department has not taken final action on an operating permit renewal application prior to an existing operating permit's expiration date, the permit shall remain in effect until the Department takes final action on the renewal application, provided that a timely and complete renewal application has been submitted in accordance with 310 CMR 7.00: *Appendix C*(13).

(f) An application shield terminates automatically upon either of the following:

1. The Department's final action on the application for the initial operating permit or for the renewal; or

2. Failure of the applicant to submit additional information requested by the Department in writing within the deadline established by the Department pursuant to 310 CMR 7.00: *Appendix* C(5)(f).

(g) An application shield terminated pursuant to 310 CMR 7.00: *Appendix C*(5)(f) will be reinstated upon receipt of a submittal meeting all the requirements of a complete initial permit application, including any application fee.

(12) <u>Permit Shield</u>.

(a) An owner or operator of a facility subject to 310 CMR 7.00: *Appendix C* will not be subject to enforcement action for operating not in compliance with all applicable requirements provided said facility is in compliance with its permit terms and the Department expressly included in the facility's operating permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

1. Such applicable requirements are included and are specifically identified in the permit; or

2. The Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable and the permit includes the determination or a concise summary thereof.

(b) Nothing in 310 CMR 7.00: Appendix C(12)(a) or in any operating permit shall alter or affect the following:

1. The provisions of 42 U.S.C. 7401, § 303 (Emergency Orders), including the authority of the EPA under 42 U.S.C. 7401, § 303;

The liability of an owner or operator of a facility subject to 310 CMR 7.00: *Appendix* C for any violation of applicable requirements prior to or at the time of permit issuance;
 The applicable requirements of the acid rain program, consistent with 42 U.S.C. 7401, § 408(a); or

4. The ability of EPA to obtain information from a source pursuant to 42 U.S.C. 7401, § 114.

(c) In the event that the Department has not taken final action on an operating permit renewal application prior to an existing operating permit's expiration date, the permit shall remain in effect until the Department takes final action on the renewal application, provided that a timely and complete renewal application has been submitted in accordance with 310 CMR 7.00: *Appendix C*(13).

(13) <u>Renewals</u>.

(a) The expiration of an operating permit terminates the right of the owners or operators of a facility subject to 310 CMR 7.00: *Appendix C* to operate any emission unit, control equipment or associated equipment covered by the permit unless a timely and complete renewal application is submitted pursuant to 310 CMR 7.00: *Appendix C*(4)(b)4.

(b) Applications for renewal of operating permits are subject to the same requirements for public participation and EPA and affected state(s) oversight that apply to initial permit applications (310 CMR 7.00: *Appendix C*(6)).

(c) An application for renewal of an operating permit shall include the results of such testing as is necessary, at the discretion of the Department, to verify that emissions from the equipment or control apparatus meet the compliance emission limitations established in an approval issued pursuant to 310 CMR 7.00 or an operating permit issued under 310 CMR 7.00: *Appendix C*. If such testing is required, the applicant shall comply with the procedures outlined in 310 CMR 7.00: *Appendix C*(9) testing and monitoring.

(d) Any owner or operator of a facility subject to 310 CMR 7.00: *Appendix C* filing a timely and complete application for renewal of an operating permit shall be provided with an Application shield as prescribed in 310 CMR 7.00: *Appendix C*(11).

(14) <u>Reopenings for Cause</u>.

(a) The Department shall reopen and amend a permit when:

1. Additional federal requirements (including, but not limited to, standards or requirements pursuant to 42 U.S.C. 7401, §§ 112(d), 112(g), 112(h) and 112(j)) become applicable to a facility with a remaining permit term of three or more years. Such a reopening and amendment shall be completed not later than 18 months after promulgation of the applicable federal requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire unless the original permit or any of its terms and conditions has been extended pursuant to 310 CMR 7.00: *Appendix C*(11)(e).

2. Additional requirements (including excess emission requirements) become applicable to an affected source under the acid rain program. Upon approval by the EPA, excess emissions offset plans shall be deemed to be incorporated into the permit.

3. The Department or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards, limitations, or other terms or conditions of the permit.

4. The Department or EPA determines that the permit must be revised to assure compliance with the applicable requirements.

(b) Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the operating permit for which cause to reopen exists. Such reopenings shall be made as expeditiously as practicable.

(c) Reopening under 310 CMR 7.00: *Appendix* C(14)(a) shall not be initiated before a notice of such intent is provided to the facility by the Department at least 30 days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

(15) General Operating Permits.

(a) The Department may, after notice and opportunity for public comment provided at 310 CMR 7.00: *Appendix C*(6), issue a general operating permit applicable to numerous similar operations or facilities. Each general operating permit shall specify criteria by which facilities may qualify for the general operating permits. General operating permits shall contain as applicable, the requirements of 310 CMR 7.00: *Appendix C*(3)(g).

(b) Facilities subject to the requirements of 310 CMR 7.00: *Appendix C*(2) (Applicability) may seek a general operating permit previously issued by the Department, where appropriate, by applying to the Department under the requirements of 310 CMR 7.00: *Appendix C*(5). An application shield shall apply (310 CMR 7.00: *Appendix C*(11)).

(c) Affected units subject to the acid rain requirements of 42 U.S.C. 7401, Title IV are not eligible for general operating permits unless otherwise provided for under regulations promulgated by EPA under 42 U.S.C. 7401, Title IV.

(d) The approval of a facility's request for authorization to operate under a general operating permit shall not be a final permit action for the purpose of judicial review.

(e) Any permittee in possession of a general operating permit who proposes a modification to the equipment or control device which deviates from any term or condition of the general operating permit, shall apply for an individual operating permit consistent with the rules and procedures under 310 CMR 7.00: *Appendix C*.

(f) Notwithstanding the shield provisions of 310 CMR 7.00: Appendix C(12) the owner or operator of the facility shall be subject to enforcement action for operation without an operating permit if the facility is later determined not to qualify for the conditions and terms of the general permit.

(g) If a facility can no longer be covered under the general permit terms and conditions, the owner or operator of said facility must apply for an individual operating permit.

(16) <u>Emergency Conditions</u>.

(a) The owner or operator of a facility subject to 310 CMR 7.00: Appendix C shall be shielded from enforcement action brought for non-compliance with technology-based emission limits specified in the operating permit as a result of an emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of 310 CMR 7.00: Appendix C(16) are met. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

1. An emergency occurred and that the cause(s) of the emergency can be identified;

2. The facility was at the time being properly operated;

3. During the period of the emergency all reasonable steps were taken as expeditiously as possible to minimize levels of emissions that exceeded the emission standards, or other requirements in the operating permit; and

4. Notice of the emergency was submitted to the Department within two business days of the time when emission limitations were exceeded due to the emergency. This notice fulfills the requirement of 310 CMR 7.00: *Appendix C*(10). This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

NON-TEXT PAGE