

Commonwealth of Massachusetts Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

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FINAL AIR QUALITY OPERATING PERMIT

(Administrative Amendment to MBR-95-OPP-060R, Transmittal No. W056105)

Issued by the Massachusetts Department of Environmental Protection ("MassDEP") pursuant to its authority under M.G.L. c. 111, §142B and §142D, 310 CMR 7.00 et seq., and in accordance with the provisions of 310 CMR 7.00: Appendix C.

ISSUED TO ["the Permittee"]: INFORMATION RELIED UPON:

ITW Polymers Adhesives, N.A. 30 Endicott Street

Danvers, Massachusetts 01923

Application No. MBR-95-OPP-060RA

1190683

Transmittal No. X273224

FACILITY LOCATION: FACILITY IDENTIFYING NUMBERS:

ITW Polymers Adhesives, N.A. SSEIS ID No: 30 Endicott Street FMF FAC No:

30 Endicott Street FMF FAC No: 289738 Danvers, Massachusetts 01923 FMF RO No: 289739

NATURE OF BUSINESS: Standard Industrial Code (SIC): 2891

Adhesive Manufacturer North American Industrial Classification

System: 325520

RESPONSIBLE OFFICIAL: FACILITY CONTACT PERSON:

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This Operating Permit shall expire on <u>June 20, 2017</u>

For the Department of Environmental Protection, Bureau of Waste Prevention

This final document copy is being provided to you electronically by the

Department of Environmental Protection. A signed copy of this document

is on file at the DEP office listed on the letterhead.

Date: December 16, 2016

Susan P. Ruch

Acting Permit Chief & Deputy Regional Director

Bureau of Air & Waste

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SPECIAL CONDITIONS FOR OPERATING PERMIT

1. PERMITTED ACTIVITIES

In accordance with the provisions of 310 CMR 7.00:Appendix C and applicable rules and regulations, the Permittee is authorized to operate air emission units as shown in Table 1 and exempt and insignificant activities as described in 310 CMR 7.00:Appendix C(5)(h) and (i). The units described in Table 1 are subject to the terms and conditions shown in Sections 4, 5, and 6 and to other terms and conditions as specified in this Permit. Emissions from the exempt activities shall be included in the total facility emissions for the emission-based portion of the fee calculation described in 310 CMR 4.00 and this Permit.

DESCRIPTION OF FACILITY AND OPERATIONS

ITW Devcon/Plexus ("the Permittee") is an adhesives manufacturing facility located at 30 Endicott Street in Danvers, Massachusetts ("the Facility"). The Facility consists of one natural gas fired boiler rated at 6.3 million British thermal units per hour (Emission Unit (EU) CB-200-150), twelve (12) mix tanks, three (3) pre-mix tanks, ten (10) cold degreasers, and two (2) reactors (see Table 1 for a more comprehensive description of these EUs). From these EUs, the Facility formulates four (4) types of adhesives: epoxies, urethanes, styrene-containing adhesives and methyl methacrylate-containing adhesives. The basic process steps are chemical blending, package filling, and equipment cleaning.

The Facility has potential emissions of volatile organic compounds (VOC) and Hazardous Air Pollutants (HAPs) greater than the applicable major thresholds. The EUs identified in Table 1 that are controlled by a roto-concentrator/thermal oxidizer (PCD-1) are located in a large enclosed room which has been deemed to comply with the requirements of a Permanent Total Enclosure in accordance with U.S. EPA Method 204 of 40 CFR Part 51, Appendix M. PCD-1 provides an overall capture and control efficiency of at least 96 percent (%) by weight of the VOC and HAPs applied on the associated EUs. In addition, the EUs which are controlled by PCD-1 are subject to the federal requirements of 40 CFR 64, Compliance Assurance Monitoring (CAM).

The Permittee has also identified a new naming system for its existing and new EUs, all of which are listed in Table 1. These new EUs are existing pieces of equipment that have recently become subject to a State or Federal Regulation. For example, the two reactors EU1006 and EU1007 are subject to the record keeping and reporting requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Miscellaneous Organic Chemical Manufacturing (40 CFR 63, Subpart FFFF). EU4009, EU4010, EU4012, EU4013, and EU4020 are subject to NESHAPS for Miscellaneous Coating Manufacturing (40 CFR 63, Subpart HHHHHH).

Tables 3, 4, 5, 6, 8, 9, and 10 of this Operating Permit contain the Air Quality requirements and regulations to which the Permittee is subject. Table 7 of this Operating Permit contains Air Quality requirements to which the Permittee is not subject as well as the reasoning utilized in determining the non-applicability status.

2. <u>EMISSION UNIT IDENTIFICATION</u>

The following emission units (Table 1) are subject to and regulated by this Operating Permit:

	Table 1					
Old EU#	New EU#	Description of Emission Unit	EU Design Capacity	Pollution Control Device (PCD)		
EU1	EU4010	Ross Mixer (id# 4010)	500 gallons	Permanent Total Enclosure (PTE) and Roto-Concentrator with thermal oxidizer (PCD-1)		
EU2	EU4009	Nettco Premix Tank (id# 4009)	1000 gallons	PTE and PCD-1		
EU3	EU4001	Hockmeyer Mixer (id# 4001)	200 gallons	PTE and PCD-1		
EU4	EU4011	Hockmeyer Mixer (id# 4011)	200 gallons	PTE and PCD-1		
EU5	EU4012	Nettco Premix Tank (id# 4012)	450 gallons	PTE and PCD-1		
EU6	EU4013	Nettco Premix Tank (id# 4013)	450 gallons	PTE and PCD-1		
EU7	EU5021	Hockmeyer Mixer (id# 5021)	100 gallons	None		
EU8	EU5022	Hockmeyer Mixer (id# 5022)	100 gallons	None		
EU9	EU4004	Ross Mixer (id# 4004)	100 gallons	PTE and PCD-1		
EU10	EU4018	Ross Mixer (id# 4018)	200 gallons	PTE and PCD-1		
None	EU12A1, EU12A2, EU12A3, EU12A4, EU12A5, EU12A6	Six (6) Cold Degreasers	10 gallons each	PTE and PCD-1		
None	EU12B1, EU12B2, EU12B3, EU12B4	Four (4) Cold Degreasers	20 gallons each	None		
EU13	EUCB-200-150	Cleaver Brooks Boiler (CB-200- 150)	6.3 MMBtu/hr	None		
EU14	EU4000	Hockmeyer Mixer (id# 4000)	200 gallons	PTE and PCD-1		
EU15	EU1028	Morehouse-Cowles Mixer (id# 1028)	200 gallons	None		
EU16	EU4015	Hockmeyer Mixer (id# 4015)	200 gallons	PTE and PCD-1		
EU17	EU Fuji 1	SteveCo Mixer (id# Fuji 1)	125 gallons	None		
EU18	EU4020	Ross PDM-500 Powermix (id# 4020)	500 gallons	PTE and PCD-1		
None	EU1006	Reactor (id# 1006)	500 gallons	None		
None	EU1017	Reactor (id# 1017)	500 gallons	None		

Legend to Abbreviated Terms within Table 1:

EU# = Emission Unit Number

MMBtu/hr = million British thermal units per hour

NA = not applicable

id# = identification number (by source)

3. <u>IDENTIFICATION OF EXEMPT ACTIVITIES</u>

The following activities (Table 2) are considered to be exempt activities in accordance with the criteria contained in 310 CMR 7.00: Appendix C(5)(h):

Table 2	
Description of Current Exempt Activities	Reason
	Regulation 310 CMR 7.00: Appendix C(5)(h)

4. <u>APPLICABLE REQUIREMENTS</u>

A. OPERATIONAL AND/OR PRODUCTION EMISSION LIMITS AND RESTRICTIONS

The Permittee is subject to the emission limits/restrictions contained in Table 3 below:

	Table 3					
EU#	Fuel/Raw Materials	Pollutant	Restrictions	Emission Limit/Standard	Applicable Regulation and/or Approval No.	
EU4010, EU4009, EU4001, EU4011, EU4012, EU4013, EU5021, EU5022, EU4004 ¹ , EU4018	Methyl methacrylate, Methacrylic Acid, Styrene	VOC and HAPs	≤9.3 tons of any combination of HAPs and ≤3.7 tons of VOC (exclusive of any HAPs) per month ≤32.8 tons of any combination of HAPs and ≤12.8 tons of VOC (exclusive of any HAPs) per rolling twelve month calendar period⁴	NA	MBR-95-IND-048 Modified Final Approval 310 CMR 7.18(27)	

	Table 3					
EU#	Fuel/Raw Materials	Pollutant	Restrictions	Emission Limit/Standard	Applicable Regulation and/or Approval No.	
EU4010, EU4020 (portable tanks)			a. Equip each vessel with a cover or lid that must be in place at all times when the vessel contains a HAP(s)	NA		
EU4009, EU4012, EU4013 (stationary tanks)	Methyl methacrylate, Methacrylic Acid,	HAPs	a. Equip each vessel with a cover or lid that must be in place at all times when the vessel contains a HAP(s); or b. Equip each vessel with a tightly fitting vented cover or lid that must be closed at all times when the vessel contains a HAP(s).	Reduce emissions of each HAP with a vapor pressure ≥ 0.6 kPa by ≥ 75 percent by weight and each HAP with a vapor pressure < 0.6 kPa by ≥ 60 percent by weight by venting emissions through a closed-vent system to any combination of control devices (except a flare)	40 CFR Part 63.8005, Subpart HHHHH Table 1	
EU4011, EU4018, EU4000, EU4015	Styrene	VOC and HAPs	PTE and VOC and HAPs overall control efficiency of at least 96% by weight Maintain PCD-1operating temperature of ≥ 1425 °F	PTE and VOC and HAPs overall control efficiency of at least 96% by weight or a maximum hourly VOC and HAPs emission rate of 1.30 pounds per hour, whichever is least stringent	MBR-07-IND-014	
EU12A1, EU12A2, EU12A3, EU12A4, EU12A5, EU12A6	Acetone, Methyl Methacrylate	Acetone, HAPs	PTE and VOC and HAPs overall control efficiency of at least 96% by weight <100 gallons per month per each unit Maintain PCD-1operating temperature of ≥ 1425 °F	Located in a PTE and having an overall VOC control efficiency of 90% or greater	310 CMR 7.03(8) 310 CMR 7.18(8)(a)	
EU12B1, EU12B2, EU12B3, EU12B4	Ethyl Lactate, Methyl Soyate, Acetone	Acetone, VOC	<100 gallons per month per each unit	Vapor pressure ≤ 1.0 mm Hg at 20 degrees Celsius	310 CMR 7.03(8) 310 CMR 7.18(8)(a)	

	Table 3						
EU#	Fuel/Raw Materials	Pollutant	Restrictions	Emission Limit/Standard	Applicable Regulation and/or Approval No.		
EUCB-200- 150	Natural Gas	Particulate Matter	NA	<0.10 lb/MMBtu	310 CMR 7.02(8)(h) MBR-79-COM-064		
EU1028	Toluene, Methyl ethyl ketone, Xylene		<1.5 tons of any combination of HAPs and <1.5 tons of VOC (exclusive of any HAPs) per month <5.0 tons of any combination of HAPs and <5.0 tons of VOC (exclusive of any HAPs) per rolling twelve month calendar period ⁴		310 CMR Appendix C(8)(a)2. Minor Modification Transmittal No. W045497		
EUFUJI 1	Methyl methacrylate, Methyl ethyl ketone, Styrene	VOC and That 3	<1.5 tons of any combination of HAPs and <1.5 tons of VOC (exclusive of any HAPs) per month <5.0 tons of any combination of HAPs and <5.0 tons of VOC (exclusive of any HAPs) per rolling twelve month calendar period ⁴	NA	310 CMR Appendix C(8)(a)2. Minor Modification Transmittal No. W050716		
EU1006 EU1017	NA	HAPs	< 200 pounds of HAPs per year per EU		40 CFR Part 63 Subpart FFFF		
Facility-wide	See above	Smoke	NA	<no. 1="" chart<sup="" of="">2, except No. 1 to < No. 2 of Chart for ≤ 6 minutes during any one hour</no.>	310 CMR 7.06(1)(a)		
		Opacity		≤20%, except 20% to ≤40% for ≤2 minutes during any one hour	310 CMR 7.06(1)(b)		
		Greenhouse gas ³		NA	310 CMR 7.71 (state only)		

Table 3 Key:

EU# = Emission Unit Number VOC = volatile organic compounds NOx = oxides of nitrogen

CO = carbon monoxide

HAP = Hazardous Air Pollutant

PM = particulate matter

lb/MMBtu = pound per million British thermal units

NA = not applicable

PTE = permanent total enclosure

KPa = kilopascals

 \leq = less than or equal to; \geq = greater than or equal to; \leq = less than

% = percent

Table 3 Notes:

- Both EU4001 and EU4004 are located in the same room as EU4011, EU4018, EU4000, and EU4015. This room is the PTE for EU4011, EU4018, EU4000, and EU4015. The entire room emissions exhaust to PCD-1. Both EU4001 and EU4004 are only required to comply with Modified Final Approval MBR-95-IND-048, 310 CMR 7.00 Appendix C(9)(b)2., and 310 CMR 7.18(27).
- 2 Chart 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 MassDEP.
- Greenhouse Gas 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, CO_2 , CH_4 , N_2O , SF_6 , hydrofluorocarbons (HFCs), and perfluorocarbons (PFCs).
- 4 To calculate the amount of a consecutive 12 month rolling period take the current calendar month amount and add it to the previous 11 calendar months total amount.

B. COMPLIANCE DEMONSTRATION

The Permittee is subject to the monitoring/testing, record keeping, and reporting requirements as contained in Tables 4, 5, and 6 below and 310 CMR 7.00 Appendix C(9) and (10), as well as the applicable requirements contained in Table 3:

Table 4				
EU#	Monitoring and Testing Requirements			
EU4010, EU4009, EU4001, EU4011, EU4012, EU4013, EU5021, EU5022,	1) Monitor emission rates on a monthly basis and a 12 month rolling basis to demonstrate compliance with the restrictions contained in Table 3, including the quantity of emissions from the facility of each individual Hazardous Air Pollutant (HAP), sum of all HAPs, and total Volatile Organic Compounds (VOC) as required in Modified Final Approval MBR-95-IND-048, dated January 20, 2000. 2) Monitor all malfunctions and maintenance activities performed on emission unit controls and monitoring equipment as required in Modified Final Approval MBR-95-IND-048, dated January 20, 2000.			
	3) Monitor operations on a monthly basis as detailed in the SOMP and as the basis for periodic monitoring required in 310 CMR 7.00 Appendix C(9)(b)2.			
	4) In accordance with 40 CFR Part 63.8, Subpart HHHHH, Table 1, comply with all applicable monitoring/testing requirements therein.			

Table 4					
EU#	Monitoring and Testing Requirements				
EU4010, EU4009, EU4012, EU4013, EU4020 (Continued)	5) In accordance with 40 CFR Part 63.8, Subpart HHHHH, Table 1, ensure that the PTE remains a PTE in accordance with EPA Reference Test Method 204. Monitor the pressure drop across the PTE every 15 minutes and calculate the 3-hour rolling average of the pressure drop measurements; the negative pressure has a minimum pressure differential of -0.007 inches water column (in w.c.). An alarm will sound if the pressure differential increases above this value.				
	6) As stated in Approval MBR-07-IND-014, Special Condition E.6. and 40 CFR 64.9 (CAM), that while operating, PCD1's outlet temperature shall be recorded continuously with temperature monitoring and recording equipment using a digital readout and stored in a digital format.				
EU4011, EU4018, EU4000, EU4015	7) In accordance with 310 CMR 7.00 Appendix C (10), the Permittee shall complete additional emissions testing of PCD-1 and the associated PTEs, at least once every three (3) years. The next retest must be completed no later than May 30, 2012. The Permittee shall submit a pre-test protocol to MassDEP at least thirty (30) days prior to each scheduled re-test. 8) As stated in Approval MBR-07-IND-014, Special Condition E.18. and 40 CFR 64.9 (CAM), the Permittee shall monitor operating and preventative maintenance activities on-site to document the proper operation and maintenance conducted on PCD-1 in accordance with its SOMP.				
	9) In accordance with 40 CFR 64.3 (CAM), the chamber temperature shall be monitored with thermocouples. The thermocouples shall be replaced annually. The acceptance criteria is \pm 15°F for each thermocouple.				
EU12A1, EU12A2, EU12A3, EU12A4, EU12A5, EU12A6, EU12B1, EU12B2, EU12B3, EU12B4	10) Monitor operations to maintain consumption limit of <100 gallons per month of degreasing solvent per cold degreaser as defined in 310 CMR 7.03(8) and as the basis for periodic monitoring required in 310 CMR 7.00 Appendix C(9)(b)2.				
EU12B1, EU12B2, EU12B3, EU12B4	11) Monitor operations to only utilize degreasing solvents that contain ≤ 1.0 mm Hg at 20 degrees Celsius in these cold degreasers as defined in 310 CMR 7.03(8)(a) and as the basis for periodic monitoring required in 310 CMR 7.00 Appendix C(9)(b)2.				
EUCB-200-150	12) Monitor the combustion efficiency of the boiler on an annual basis as detailed in the Standard Operating and Maintenance Plan (SOMP) and 310 CMR 7.04(4)(a) and as the basis for periodic monitoring required in 310 CMR 7.00 Appendix C(9)(b)2.				
EU1028	13) In accordance with 310 CMR 7.00 Appendix C (9) and as required in the Minor Modification Approval dated February 5, 2004 (Transmittal No. W045497), monitor emission rates on a monthly basis and a 12 month rolling basis to demonstrate compliance with the restriction contained in Table 3, including the quantity of emissions from EU1028 to determine the sum of all HAPs, and total VOC.				
EUFUJI 1	14) In accordance with 310 CMR 7.00 Appendix C (9) and as required in the Minor Modification Approval dated May 4, 2004 (Transmittal No. W050716), monitor emission rates on a monthly basis and a 12 month rolling basis to demonstrate compliance with the restriction contained in Table 3, including the quantity of emissions from EUFUJI 1 to determine the sum of all HAPs, and total VOC.				
	15) Monitor to verify that emissions from each EU do not exceed the 200 pounds of HAPs per year "batch process vent" threshold by performing the following in accordance with 40 CFR Part 63, Subpart FFFF (i.e., 40 CFR 63.2550):				
EU1006, EU1017	 a. Monitor the number of batches of each relevant adhesive that was produced in the EUs; and b. Monitor the monthly and the twelve month rolling HAPs emissions from such production, using a worst-case emission factor per HAP batch per product that was initially developed to demonstrate compliance. 				

	Table 4				
EU#	Monitoring and Testing Requirements				
	16) Conduct Emissions Compliance Testing (Stack Testing), in accordance with 310 CMR 7.13, and 40 CFR Part 60, Appendix A (Method 7E for NOx, Methods 1 to 5 for PM, Method 3A for Oxygen (O ₂)) or any other testing if and when requested by MassDEP or EPA.				
	17) Opacity shall be determined in accordance with EPA Test Method 9, as specified in 40 CFR Part 60, Appendix A, if and when requested by MassDEP or EPA. This method shall also apply to any detached plumes.				
	18) Monitor operations such that information may be compiled for the annual preparation of a Source Registration/Emission Statement Form as requested by 310 CMR 7.12.				
	19) In accordance with 310 CMR 7.71(1) and Appendix C(9) establish and maintain data systems or record keeping practices (e.g. fuel use records, SF6 usage documentation, Continuous Emissions Monitoring System) for greenhouse gas emissions to ensure compliance with the reporting provisions of M.G.L. c. 21N, the Climate Protection and Green Economy Act, St. 2008, c. 298, § 6. (State only requirement)				

Table 5				
EU#	Record Keeping Requirements			
EU4010, EU4009, EU4001, EU4011,	1) Maintain records of emission rates on a monthly basis and a 12 month rolling basis to demonstrate compliance with the restriction contained in Table 3, including the quantity of emissions from the facility of each individual Hazardous Air Pollutant (HAP), sum of all HAPs, and total Volatile Organic Compounds (VOC) as required in Modified Final Approval MBR-95-IND-048, dated January 20, 2000.			
EU4001, EU4011, EU4012, EU4013, EU5021, EU5022, EU4004, EU4018	2) Maintain records of all malfunctions and maintenance activities performed on emission unit controls and monitoring equipment as required in Modified Final Approval MBR-95-IND-048, dated January 20, 2000.			
	3) Maintain records of operations on a monthly basis as detailed in the SOMP and as the basis for periodic monitoring required in 310 CMR 7.00 Appendix C(9)(b)2.			
EU4010, EU4009, EU4012, EU4013, EU4020	4) In accordance with 40 CFR Part 63.8080, Subpart HHHHH, comply with the record keeping requirements therein.			
EU4011, EU4018, EU4000, EU4015	5) As stated in Approval MBR-07-IND-014, Special Condition E.6. and 40 CFR 64.9 (CAM), that while operating, PCD-1's outlet temperature shall be recorded with temperature monitoring and recording equipment using a digital readout and stored in digital format. The temperature records shall be maintained on-site for a minimum of five years, and shall be made available to MassDEP personnel upon request.			
	6) As stated in Approval MBR-07-IND-014, Special Condition E.18. and 40 CFR 64.9 (CAM), the Permittee shall maintain operating and preventative maintenance logs on-site to document the proper operation and maintenance conducted on PCD-1 in accordance with its SOMP.			

Table 5				
EU#	Record Keeping Requirements			
EU4011, EU4018, EU4000, EU4015 (Continued)	7) As stated in Approval MBR-07-IND-014, General Condition F.2., the Permittee shall maintain an Environmental Logbook, or equivalent record keeping system, which shall document all actions associated with environmental issues and overall emissions changes at the facility. The facility shall record information such as the results of federal, state, or local environmental inspections; maintenance or corrective actions related to pollution control equipment; and measures taken to lower overall emissions to the environment (air, solvent waste, etc.). This Logbook, or equivalent record keeping system, shall be retained for 5 years and be made available to MassDEP personnel upon request.			
EU12A1, EU12A2, EU12A3, EU12A4, EU12A5, EU12A6, EU12B1, EU12B2, EU12B3, EU12B4	8) Maintain records of operations to demonstrate compliance with the consumption limit of <100 gallons per month of degreasing solvent per cold degreaser as defined in 310 CMR 7.03(8), 310 CMR 7.18(8)(g) and as the basis for periodic record keeping required in 310 CMR 7.00 Appendix C(9)(b)2.			
EU12B1, EU12B2, EU12B3, EU12B4	9) Maintain records of operations to demonstrate compliance with the usage of only degreasing solvents that contain ≤ 1.0 mm Hg at 20 degrees Celsius in these cold degreasers as defined in 310 CMR 7.03(8), 310 CMR 7.18(8)(g) and as the basis for periodic record keeping required in 310 CMR 7.00 Appendix C(9)(b)2.and as the basis for periodic record keeping required in 310 CMR 7.00 Appendix C(9)(b)2.			
EUCB-200-150	10) Maintain records of the combustion efficiency of the boilers on an annual basis as detailed in the Standard Operating and Maintenance Plan (SOMP) and 310 CMR 7.04(4)(a) and as the basis for periodic monitoring required in 310 CMR 7.00 Appendix C(9)(b)2.			
EU1028	11) In accordance with 310 CMR 7.00 Appendix C (10) and with Minor Modification (Transmittal No. W045497), maintain daily inventory of products made on the mixer. Calculate the percent VOC of each formula. Multiply the percent VOC by the number of batches made each month and each year. Multiply this number by 1.0 percent as the emission factor.			
EUFUJI 1	12) In accordance with 310 CMR 7.00 Appendix C (10) and with Minor Modification (Transmittal No. W050716), maintain daily inventory of products made on the mixer. Calculate the percent VOC of each formula. Multiply the percent VOC by the number of batches made each month and each year. Multiply this number by 0.5 percent as the emission factor.			
	13) Maintain records to document that emissions from each EU do not exceed the 200 pounds of HAPs per year "batch process vent" threshold by performing the following in accordance with 40 CFR Part 63, Subpart FFFF (i.e., 40 CFR 63.2550):			
	 Maintain monthly records of the number of batches of each relevant adhesive that was produced in the EUs; and 			
EU1006, EU1017	 Calculate and maintain a rolling annual record of the monthly HAPs emissions from such production, using a worst-case emission factor per HAP batch per product that was initially developed to demonstrate compliance. 			
	14) If the records indicate that the HAPs emissions from either EU has reached or exceeded 200 pounds per year, the Permittee shall immediately implement all of the necessary measures to ensure that it begins complying with any increased regulatory requirements that may apply to those EUs in accordance with the applicable provisions of 40 CFR Part 63, Subpart FFFF (i.e., 40 CFR 63.2520(b)(1)-(2)). Such change in status will also be reported in the subsequent semi-annual and annual compliance reports from the Facility in accordance with 40 CFR 63.2520(b)(5).			

	Table 5				
EU#	Record Keeping Requirements				
	15) In accordance with 310 CMR 7.00: Appendix C(10)(b), maintain records of all monitoring data and supporting information required by this Operating Permit on site for five (5) years from the date of the monitoring sample, measurement, report or Operating Permit Renewal Application.				
Facility-wide	16) Maintain the test results of any Emissions Compliance Testing (Stack Testing) performed in accordance with 310 CMR 7.13, and 40 CFR Part 60, Appendix A or of any other testing required by MassDEP or USEPA.				
·	17) Maintain records of any EPA Test Method 9 opacity determinations performed according to 40 CFR Part 60, Appendix A, including detached plumes, required by MassDEP or USEPA.				
	18) Keep copies of Source Registration and other information submitted to MassDEP to comply with 310 CMR 7.12, shall be retained by the facility owner or operator for five years from the date of submittal.				
	19) In accordance with 310 CMR 7.71 (6) b. and c. retain at the facility for five years and make available to the Department upon request copies of the documentation of the methodology and data used to quantify emissions. (State only requirement)				

Table 6		
EU#	Reporting Requirements	
EU4010, EU4009, EU4012, EU4013, EU4020	1) In accordance with 40 CFR Part 63.8075, Subpart HHHHH, submit semi-annual reports to the MassDEP and U.S. EPA Region I as required therein.	
EU4011, EU4018, EU4000, EU4015	2) As stated in Approval MBR-07-IND-014, Special Condition E25. and 40 CFR 64.9 (CAM), should the Rotary Concentrator/ Thermal Oxidizer (PCD-1) become inoperable for any reason, the Permittee's Environmental Health and Safety personnel or designate must be notified within 15 minutes of the Permittee operators receiving the alarm. If PCD-1 becomes inoperable for more than 1 hour, the Permittee shall notify MassDEP within one business day by fax, attention Bureau of Waste Prevention Compliance & Enforcement Chief, at (978) 694-3499 and subsequently in writing within seven (7) days of occurrence describing the reason(s) for and the extent of down time of the equipment and all steps that have been or will be taken to prevent said occurrence from recurring. The Permittee shall take immediate action to minimize emissions and diagnose and repair the problem.	
	3) As stated in Approval MBR-07-IND-014, Special Condition E.29., the Permittee shall be required to submit, in writing, an Exceedance Report to MassDEP should the facility exceed any limitation/restriction established within this Final Approval. Said Exceedance Report shall be submitted, in writing, to this Office within seven (7) days of determination of the exceedance of the limitation. The Exceedance Report shall include identification, duration, reason for the exceedance, and remedial action plan to prevent future exceedances.	
	4) As stated in Approval MBR-07-IND-014, General Condition F.3., the Permittee shall submit an annual report to this Office, attention Bureau of Waste Prevention Permit Chief, by January 31 of the following year, summarizing its progress towards decreasing overall emissions to the environment. This report shall discuss alternative technologies or reformulated materials, which have been or will be implemented at the Facility.	

Table 6		
EU#	Reporting Requirements	
EU4011, EU4018, EU4000, EU4015 (Continued)	5) The Permittee shall submit the stack test results to MassDEP within sixty (60) days after each re-test has been completed.	
EU1006, EU1017	6) If the records indicate that the HAPs emissions from either EU have reached or exceeded 200 pounds per year, the Permittee shall immediately implement all of the necessary measures to ensure that it begins complying with any increased regulatory requirements that may apply to those EUs in accordance with the applicable provisions of 40 CFR Part 63, Subpart FFFF (i.e., 40 CFR 63.2520(b)(1)-(2)). Such change in status shall also be reported in the subsequent semi-annual and annual compliance reports from the Permittee in accordance with 40 CFR 63.2520(b)(5).	
Facility-wide	7) Submit a Source Registration/Emission Statement form to MassDEP on an annual basis as required by 310 CMR 7.12.	
	8) Upon MassDEP'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 or longer, if approved by MassDEP, as required by 310 CMR 7.00 Appendix C(10)(a).	
	9) Submit by January 30 and July 30 for the previous six months respectively, a summary of all monitoring data and related supporting information to MassDEP as required in 310 CMR 7.00 Appendix C(10)(c).	
	10) Promptly report to MassDEP all instances of deviations from Permit requirements (including but not limited to testing for efficient operation, emission limitations/standards, Standard Operating and Maintenance Procedures) by telephone or fax, within three days of discovery of such deviation, as provided in 310 CMR 7.00: Appendix C(10)(f) (See General Condition 25).	
	11) Submit Annual Compliance report to MassDEP and EPA as required by General Condition 10. All reports must be certified by a responsible official as provided in 310 CMR 7.00: Appendix C(10)(h).	
	12) In accordance with 310 CMR 7.71(5), by April 15, 2010 and April15 of each year thereafter report emissions of greenhouse gases from stationary emissions sources including, but not limited to, emissions from factory stacks, manufacturing processes and vents, fugitive emissions, and other process emissions; and owned or leased motor vehicles when stationary source greenhouse gas emissions are greater than 5,000 short tons CO2e. Report greenhouse gas emissions electronically in a format that can be accommodated by the registry. (State only requirement)	
	13) In accordance with 310 CMR 7.71(6), certify greenhouse gas emissions reports using a form provided by the Department or the registry. (State only requirement)	
	14) In accordance with 310 CMR 7.71(7), by December 31of the applicable year submit to the Department documentation of triennial verification of the greenhouse gas emissions report. (State only requirement)	

C. GENERAL APPLICABLE REQUIREMENTS

The Permittee shall comply with all generally applicable requirements contained in 310 CMR 7.00 et. seq. and 310 CMR 8.00 et. seq., when subject.

D. REQUIREMENTS NOT CURRENTLY APPLICABLE

The Permittee is currently not subject to the following requirements:

Table 7		
Regulation	Reason	
310 CMR 7.16	Below the thresholds	

5. SPECIAL TERMS AND CONDITIONS

The Permittee is subject to the following special terms and conditions that are not contained in Tables 3, 4, 5, and 6:

Table 8		
EU#	Special Terms and Conditions	
EU4011, EU4018, EU4000, EU4015	1) As stated in Approval MBR-07-IND-014, Operational Requirement D.1., PCD-1 shall provide an overall, minimum control efficiency of 96 weight percent for VOC and HAPs or a maximum hourly VOC and HAPs emission rate of 1.30 pounds per hour, whichever is least stringent. The associated permanent total enclosures (PTEs) shall provide 100% capture efficiency. 2) As stated in Approval MBR-07-IND-014, Operational Requirement D.2., PCD-1 shall utilize natural gas as its only fuel.	
	3) As stated in Approval MBR-07-IND-014, Operational Requirement D.3., all VOC and/or HAPs containing materials, such as solvents and cleanup solutions, shall be transported and stored in tightly covered containers.	
	4) As stated in Approval MBR-07-IND-014, Operational Requirement D.4., all cleaning rags used in conjunction with the cleaning solutions shall be placed in tightly covered containers when not in use, and shall be collected for proper recycling or disposal.	
	5) As stated in Approval MBR-07-IND-014, Special Condition E.5., that a copy of the Final Approval letter shall be posted at or near PCD-1.	
	6) As stated in Approval MBR-07-IND-014, Special Condition E.7., that for compliance testing purposes, the inlet sampling ports (90 degrees apart from each other) on PCD-1 must be located on its inlet stream. The outlet sampling ports (90 degrees apart from each other) must be located downstream of PCD-1 and upstream of any dilution or recirculation streams. Each of the inlet and outlet sample ports must be located at a minimum of one duct diameter upstream and two duct diameters downstream of any flow disturbance in accordance with 40 CFR 60, Appendix A, Method 1.	

- 7) As stated in Approval MBR-07-IND-014, Special Condition E.9. and this Operating Permit Renewal, the Permittee shall maintain documentation and adhere to the criteria for VOC capture efficiency U.S. EPA Method 204 for PTEs for Mixer Nos. 4000, 4011, 4015, 4018, and 4020. The criteria for a PTE are the following:
 - a) All access doors and windows are closed during normal operation.
 - b) The interior of the PTE is under negative pressure to the outside environment.
 - c) The average velocity through the natural draft openings (NDOs) must be greater than 200feet per minute.
 - d) Sources of VOC in the PTE must be at least four (4) equivalent diameters from each NDO.
 - e) The total area of all NDOs must be less than five (5) percent of the total area of the enclosure.

The above procedures shall be verified on a quarterly basis and the results maintained on-site for a five-year period. The above procedures shall be incorporated into the Permittee's Standard Operating and Maintenance Procedure (SOMP) for the subject process equipment.

EU4011, EU4018, EU4000, EU4015

8) As stated in Approval MBR-07-IND-014, Special Condition E.16., that any stack exit rain protection device shall not impede the exhaust gas flow from Stack No. 1.

(Continued)

- 9) As stated in Approval MBR-07-IND-014, Special Condition E.17. and 40 CFR 64.9 (CAM), that for PCD-1, a copy of its SOMP shall be located at or near its control panel. PCD-1's start-up specifications shall be incorporated into the SOMP. The SOMP shall address the spare parts inventory and back-up equipment systems for the air pollution control system to prevent or reduce any downtime of the air pollution control system. In addition, a copy of any subsequent revisions made to the SOMP must be submitted to this Office within seven (7) days of the revision.
- 10) As stated in Approval MBR-07-IND-014, Special Condition E.24. and 40 CFR 64.3 (CAM), should PCD-1 fail to maintain or fall below its designated operating temperature of 1425 °F, an alarm shall actuate in Department 4 mixing area to cease all operations. The current batch runs will be allowed to go to completion. The system may bypass PCD-1 for a period of no more than 8 hours for mixers and no more than 12 hours for premix tanks, after which point, no VOC or HAPs emissions are allowed. In accordance with 40 CFR 64.3 (CAM), an excursion is defined as temperature readings less than 1425 °F or greater than 1800 °F. If an excursion occurs an alarm shall actuate based on average of a six-minute cycle. Any excursion shall trigger an inspection by the Applicant, corrective action, and a reporting requirement to MassDEP.
- 11) As stated in Approval MBR-07-IND-014, Special Condition E.26., that an electronic interlock system shall prevent introduction of the exhaust stream from the subject processes to PCD-1 until the PCD-1 has achieved the minimum oxidation temperature of 1425°F.
- 12) As stated in Approval MBR-07-IND-014, General Condition F.4., the Permittee shall allow MassDEP personnel access to the plant site, buildings, and all pertinent records during business hours for the purpose of making inspections and surveys, collecting samples, obtaining data, and reviewing records.

13) That should any nuisance condition(s) be generated by the operation of this Facility, then appropriate steps will immediately be taken by the Permittee to abate said nuisance condition(s) (State Only 310 CMR 7.01(1)).

14) The Permittee shall operate its equipment such that none of the emission limits contained in Table 3 shall be exceeded as required in Modified Final Approval MBR-95-IND-048, dated January 20, 2000 and Conditional Approval MBR-07-IND-014, dated January 28, 2008.

Facility-wide

- 15) The Permittee shall maintain that all its mixing tanks are in compliance with 310 CMR 7.18(27).
- 16) The Permittee shall continue to investigate the feasibility of implementing alternative technologies or reformulated raw material inputs which will lead to the decrease of overall emissions from the Facility to the environment as required in Modified Final Approval MBR-95-IND-048, dated January 20, 2000 and Conditional Approval MBR-07-IND-014, dated January 28, 2008.
- 17) The Permittee must obtain written approval from MassDEP for any proposed increase in emissions above the limits contained in Table 3 and required by 310 CMR 7.02.

6. <u>ALTERNATIVE OPERATING SCENARIOS</u>

Table 9
Alternative Operating Scenarios
The Permittee did not request alternative operating scenarios in its Operating Permit Renewal Application.

7. <u>EMISSIONS TRADING</u>

Table 10		
EU#	Emissions Trading	
Facility-wide	(a) Intra-facility emissions trading The Permittee did not request intra-facility emissions trading in its Operating Permit Renewal Application.	
	(b) Inter-facility emissions trading The Permittee did not request inter-facility emissions trading in its Operating Permit Renewal Application.	
	All increases in emissions due to emission trading, must be authorized under the applicable requirements of 310 CMR 7.00: Appendix B (the "Emissions Trading Program") and the 42 U.S.C. §7401 et seq. (the "Act"), and provided for in this Permit.	

8. <u>COMPLIANCE SCHEDULE</u>

The Permittee shall affix labels identifying the Emission Unit Number on each Emission Unit, where it is legible and as close to the emission unit as possible, by no later than January 31, 2012.

The Permittee has indicated that the facility is in compliance and shall remain in compliance with the applicable requirements contained in Sections 4 and 5, except for the following conditions stated below.

In addition, the Permittee shall comply with any applicable requirements that become effective during the Permit term.

GENERAL CONDITIONS FOR OPERATING PERMIT

9. <u>FEES</u>

The Permittee has paid the permit application processing fee and shall pay the annual compliance fee in accordance with the fee schedule pursuant to 310 CMR 4.00.

10. <u>COMPLIANCE CERTIFICATION</u>

All documents submitted to the MassDEP shall contain certification by the responsible official of truth, accuracy, and completeness. Such certification shall be in compliance with 310 CMR 7.01(2) and contain the following language:

"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."

The "Operating Permit Reporting Kit" contains instructions and the Annual Compliance Report and Certification and the Semi-Annual Monitoring Summary Report and Certification. The "Operating Permit Reporting Kit" is available to the Permittee via the MassDEP's web site, http://www.mass.gov/dep/air/approvals/agforms.htm#op.

A. Annual Compliance Report and Certification

The Responsible Official shall certify, annually for the calendar year, that the facility is in compliance with the requirements of this Operating Permit. The report shall be postmarked or delivered by January 30 to the MassDEP and to the Regional Administrator, U.S. Environmental Protection Agency - New England Region. The report shall be submitted in compliance with the submission requirements below.

The compliance certification and report shall describe:

- 1) the terms and conditions of the Permit that are the basis of the certification;
- 2) the current compliance status and whether compliance was continuous or intermittent during the reporting period;
- 3) the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods; and
- 4) any additional information required by the MassDEP to determine the compliance status of the source.

B. <u>Semi-Annual Monitoring Summary Report and Certification</u>

The Responsible Official shall certify, semi-annually on the calendar year, that the facility is in compliance with the requirements of this Permit. The report shall be postmarked or delivered by January 30 and July 30 to the MassDEP. The report shall be submitted in compliance with the submission requirements below.

The compliance certification and report shall describe:

- 1) the terms and conditions of the Permit that are the basis of the certification;
- 2) the current compliance status during the reporting period;
- 3) the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods;
- 4) whether there were any deviations during the reporting period;
- 5) if there are any outstanding deviations at the time of reporting, and the Corrective Action Plan to remedy said deviation;
- 6) whether deviations in the reporting period were previously reported;
- 7) if there are any outstanding deviations at the time of reporting, the proposed date of return to compliance;
- 8) if the deviations in the reporting period have returned to compliance and date of such return to compliance; and
- 9) any additional information required by the MassDEP to determine the compliance status of the source.

11. NONCOMPLIANCE

Any noncompliance with a permit condition constitutes a violation of 310 CMR 7.00: Appendix C and the Clean Air Act, and is grounds for enforcement action, for Permit termination or revocation, or for denial of an Operating Permit renewal application by the MassDEP and/or EPA. Noncompliance may also be grounds for assessment of administrative or civil penalties under M.G.L. c.21A, §16 and 310 CMR 5.00; and civil penalties under M.G.L. c.111, §142A and 142B. This Permit does not relieve the Permittee from the obligation to comply with any other provisions of 310 CMR 7.00 or the Act, 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 this Permit.

12. PERMIT SHIELD

A. This facility has a permit shield provided that it operates in compliance with the terms and conditions of this Permit. Compliance with the terms and conditions of this Permit shall be deemed compliance with all applicable requirements specifically identified in Sections 4, 5, 6, and 7, for the emission units as described in the Permittee's application and as identified in this Permit.

Where there is a conflict between the terms and conditions of this Permit and any earlier approval or Permit, the terms and conditions of this Permit control.

- B. The MassDEP has determined that the Permittee is not currently subject to the requirements listed in Section 4, Table 7.
- C. Nothing in this Permit shall alter or affect the following:
 - 1) the liability of the source for any violation of applicable requirements prior to or at the time of Permit issuance.
 - 2) the applicable requirements of the Acid Rain Program, consistent with 42 U.S.C. §7401, §408(a); or
 - 3) the ability of EPA to obtain information under 42 U.S.C. §7401, §114 or §303 of the Act.

13. <u>ENFORCEMENT</u>

The following regulations found at 310 CMR 7.02(8)(h) Table 6 for wood fuel, 7.04(9), 7.05(8), 7.09 (odor), 7.10 (noise), 7.18(1)(b), 7.21, 7.22, 7.70 and any condition(s) designated as "state only" are not federally enforceable because they are not required under the Act or under any of its applicable requirements. These regulations and conditions are not enforceable by the EPA. Citizens may seek equitable or declaratory relief to enforce these regulations and conditions pursuant to Massachusetts General Law Chapter 214, Section 7A

All other terms and conditions contained in this Permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the MassDEP, EPA and citizens as defined under the Act.

A Permittee shall not claim as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

14. PERMIT TERM

This Permit shall expire on the date specified on the cover page of this Permit, which shall not be later than the date 5 years after issuance of this Permit.

Permit expiration terminates the Permittee's right to operate the facility's emission units, control equipment or associated equipment covered by this Permit, unless a timely and complete renewal application is submitted at least 6 months before the expiration date.

15. PERMIT RENEWAL

Upon the MassDEP's receipt of a complete and timely application for renewal, this facility may continue to operate subject to final action by the MassDEP on the renewal application.

In the event the MassDEP has not taken final action on the Operating Permit renewal application prior to this Permit's expiration date, this Permit shall remain in effect until the MassDEP 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).

16. REOPENING FOR CAUSE

This Permit may be modified, revoked, reopened, and reissued, or terminated for cause by the MassDEP and/or EPA. The responsible official of the facility may request that the MassDEP terminate the facility's Operating Permit for cause. The MassDEP will reopen and amend this Permit in accordance with the conditions and procedures under 310 CMR 7.00: Appendix C(14).

The filing of a request by the Permittee for an Operating Permit revision, revocation and reissuance, or termination, or a notification of a planned change or anticipated noncompliance does not stay any Operating Permit condition.

17. <u>DUTY TO PROVIDE INFORMATION</u>

Upon the MassDEP's written request, the Permittee shall furnish, within a reasonable time, any information necessary for determining whether cause exists for modifying, revoking and reissuing, or terminating the Permit, or to determine compliance with the Permit. Upon request, the Permittee shall furnish to the MassDEP copies of records that the Permittee is required to retain by this Permit.

18. DUTY TO SUPPLEMENT

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information. The Permittee shall also provide additional information as necessary to address any requirements that become applicable to the facility after the date a complete renewal application was submitted but prior to release of a draft permit.

The Permittee shall promptly, on discovery, report to the MassDEP a material error or omission in any records, reports, plans, or other documents previously provided to the MassDEP.

19. TRANSFER OF OWNERSHIP OR OPERATION

This Permit is not transferable by the Permittee unless done in accordance with 310 CMR 7.00: Appendix C(8)(a). A change in ownership or operation control is considered an administrative permit amendment if no other change in the Permit is necessary and provided that a written agreement containing a specific date for transfer of Permit responsibility, coverage and liability between current and new Permittee, has been submitted to the MassDEP.

20. PROPERTY RIGHTS

This Permit does not convey any property rights of any sort, or any exclusive privilege.

21. <u>INSPECTION AND ENTRY</u>

- A. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow authorized representatives of the MassDEP, and EPA to perform the following:
- B. enter upon the Permittee's premises where an operating permit source activity is located or emissions-related activity is conducted, or where records must be kept under the conditions of this Permit;
- C. have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- D. inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and
- E. Sample or monitor at reasonable times any substances or parameters for the purpose of assuring compliance with the Operating Permit or applicable requirements as per 310 CMR 7.00 Appendix C(3)(g)(12).

22. PERMIT AVAILABILITY

The Permittee shall have available at the facility, at all times, a copy of the materials listed under 310 CMR 7.00: Appendix C(10)(e) and shall provide a copy of the Operating Permit, including any amendments or attachments thereto, upon request by the MassDEP or EPA.

23. SEVERABILITY CLAUSE

The provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit, shall not be affected thereby.

24. <u>EMERGENCY CONDITIONS</u>

The Permittee shall be shielded from enforcement action brought for noncompliance with technology based¹ emission limitations specified in this Permit as a result of an emergency². In order to use emergency as an affirmative defense to an action brought for noncompliance, the Permittee shall demonstrate the affirmative defense through properly signed, contemporaneous operating logs, or other relevant evidence that:

- A. an emergency occurred and that the Permittee can identify the cause(s) of the emergency;
- B. the permitted facility was at the time being properly operated;
- C. during the period of the emergency, the Permittee took all reasonable steps as expeditiously as possible, to minimize levels of emissions that exceeded the emissions standards, or other requirements in this Permit; and
- D. the Permittee submitted notice of the emergency to the MassDEP within two (2) business days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emission, and corrective actions taken.

If an emergency episode requires immediate notification to the Bureau of Waste Site Cleanup/Emergency Response, immediate notification to the appropriate parties should be made as required by law.

¹ Technology based emission limits are those established on the basis of emission reductions achievable with various control measures or process changes (e.g., a new source performance standard) rather than those established to attain health based air quality standards.

² An "emergency" 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 technology based 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 operations, operator error or decision to keep operating despite knowledge of any of these things.

25. PERMIT DEVIATION

Deviations are instances where any permit condition is violated and not reported as an emergency pursuant to section 24 of this Permit. Reporting a permit deviation is not an affirmative defense for action brought for noncompliance. Any reporting requirements listed in Table 6. of this Operating Permit shall supersede the following deviation reporting requirements, if applicable.

The Permittee shall report to the MassDEP's Regional Bureau of Waste Prevention the following deviations from permit requirements, by telephone, fax or electronic mail (e-mail), within three (3) days of discovery of such deviation:

- A. Unpermitted pollutant releases, excess emissions or opacity exceedances measured directly by CEMS/COMS, by EPA reference methods or by other credible evidence, which are ten percent (10%) or more above the emission limit.
- B. Exceedances of parameter limits established by your Operating Permit or other approvals, where the parameter limit is identified by the Permit or approval as surrogate for an emission limit.
- C. Exceedances of Permit operational limitations directly correlated to excess emissions.
- D. Failure to capture valid emissions or opacity monitoring data or to maintain monitoring equipment as required by statutes, regulations, your Operating Permit, or other approvals.
- E. Failure to perform QA/QC measures as required by your Operating Permit or other approvals for instruments that directly monitor compliance.

For all other deviations, three (3) day notification is waived and is satisfied by the documentation required in the subsequent Semi-Annual Monitoring Summary and Certification. Instructions and forms for reporting deviations are found in the MassDEP Bureau of Waste Prevention Air Operating Permit Reporting Kit, which is available to the Permittee via the MassDEP's web site, http://www.mass.gov/dep/air/approvals/agforms.htm#op.

This report shall include the deviation, including those attributable to upset conditions as defined in the Permit, the probable cause of such deviations, and the corrective actions or preventative measures taken.

Deviations that were reported by telephone, fax or electronic mail (e-mail) within 3 days of discovery, said deviations shall also be submitted in writing via the Operating Permit Deviation Report to the regional Bureau of Waste Prevention within ten (10) days of discovery. For deviations, which do not require 3-day verbal notification, follow-up reporting requirements are satisfied by the documentation required in the aforementioned Semi-Annual Monitoring Summary and Certification.

26. OPERATIONAL FLEXIBILITY

The Permittee is allowed to make changes at the facility consistent with 42 U.S.C. §7401, §502(b)(10) not specifically prohibited by the Permit and in compliance with all applicable requirements provided the Permittee gives the EPA and the MassDEP written notice fifteen days prior to said change; notification is not required for exempt activities listed at 310 CMR 7.00: Appendix C(5)(h) and (i). The notice shall comply with the requirements stated at 310 CMR 7.00: Appendix C(7)(a) and will be appended to the facility's Permit. The permit shield allowed for at 310 CMR 7.00: Appendix C(12) shall not apply to these changes.

27. <u>MODIFICATIONS</u>

- A. Administrative Amendments The Permittee may make changes at the facility which are considered administrative amendments pursuant to 310 CMR 7.00: Appendix C(8)(a)1., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(b).
- B. Minor Modifications The Permittee may make changes at the facility which are considered minor modifications pursuant to 310 CMR 7.00: Appendix C(8)(a)2.,provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(d).
- C. Significant Modifications The Permittee may make changes at the facility which are considered significant modifications pursuant to 310 CMR 7.00: Appendix C(8)(a)3., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(c).
- D. No permit revision shall be required, under any approved economic incentives program, marketable permits program, emission trading program and other similar programs or processes, for changes that are provided in this Operating Permit. A revision to the Permit is not required for increases in emissions that are authorized by allowances acquired pursuant to the Acid Rain Program under Title IV of the Act, provided that such increases do not require an Operating Permit revision under any other applicable requirement.

28. OZONE DEPLETING SUBSTANCES

This section contains air pollution control requirements that are applicable to this facility, and the United States Environmental Protection Agency enforces these requirements.

- A. The Permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - 1) All containers containing a class I or class II substance that is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to 40 CFR 82.106.

- 2) The placement of the required warning statement must comply with the requirements of 40 CFR 82.108.
- 3) The form of the label bearing the required warning statement must comply with the requirements of 40 CFR 82.110.
- 4) No person may modify, remove or interfere with the required warning statement except as described in 40 CFR 82.112.
- B. The Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVAC) in Subpart B:
 - 1) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices of 40 CFR 82.156.
 - 2) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment of 40 CFR 82.158.
 - 3) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - 4) Persons disposing of small appliances, MVACs and MVAC-like appliances (as defined in 40 CFR 82.152) must comply with recordkeeping requirements of 40 CFR 82.166.
 - 5) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair equipment requirements of 40 CFR 82.156.
 - 6) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
- C. If the Permittee manufactures, transforms, imports or exports a class I or class II substance, the Permittee is subject to all the requirements as specified in 40 CFR Part82, Subpart A, "Production and Consumption Controls".
- D. If the Permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, "Servicing of Motor Vehicle Air Conditioners". The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo or system used on passenger buses using HCFC-22 refrigerant.
- E. The Permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, "Significant New Alternatives Policy Program".

29. PREVENTION OF ACCIDENTAL RELEASES

This section contains air pollution control requirements that are applicable to this facility, and the United States Environmental Protection Agency enforces these requirements.

Your facility is subject to the requirements of the General Duty Clause, under 112(r)(1) of the CAA Amendments of 1990. This clause specifies that owners or operators of stationary sources producing, processing, handling or storing a chemical in any quantity listed in 40 CFR Part 68 or any other extremely hazardous substance have a general duty to identify hazards associated with these substances and to design, operate and maintain a safe facility, in order to prevent releases and to minimize the consequences of accidental releases which may occur.