



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

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AIR QUALITY OPERATING PERMIT with MINOR MODIFICATION

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"]:

The Newark Group
100 Newark Way
Fitchburg, MA 01420

INFORMATION RELIED UPON:

TR# W200005
TR# W200007-A issued 4/30/08
TR# W111477 issued 8/22/08
TR# W0222555 (parts I,II, III)
TR# X233264 (GHG Reporting)

FACILITY LOCATION:

Newark America
Newark Way
Fitchburg, MA 01420

FACILITY IDENTIFYING NUMBERS:

AQ ID: AQCR: 118 Plant ID: 355
FMF FAC NO. 343837
FMF RO NO. 359901

NATURE OF BUSINESS:

Paperboard Mill using recycled fibers

STANDARD INDUSTRIAL CODE (SIC):

SIC Code: 2631

**NORTH AMERICAN INDUSTRIAL
CLASSIFICATION SYSTEM (NAICS):**

322130

RESPONSIBLE OFFICIAL:

Name: Dana Pelletier
Title: General Manager

FACILITY CONTACT PERSON:

Name: Dana Pelletier
Title: General Manager
Phone: 978-665-2608

This Operating Permit shall expire on March 3, 2015.

For MassDEP,

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.

Permit Chief, Bureau of Waste Prevention

July 31, 2012

Date

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SPECIAL CONDITIONS FOR OPERATING PERMIT

A Legend to Abbreviated Terms found in the following Tables is located in Section 28 of the 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

A. The Newark Group, Inc., doing business as Newark America (the "Permittee") operates a paper recycling facility at 100 Newark Way, Fitchburg, Massachusetts. The Facility consists of boilers, paper making machines and auxiliary equipment to recycle residential mixed and baled newspapers and magazines into graphic board using in-line laminating technology.

BOILERS

B. The fossil fuel utilization facility consists of two high-pressure boilers. Boiler No.1 referred to herein as Emission Unit ("EU") #1 is a Babcock and Wilcox water tube boiler which remains as a standby unity in the event the primary boiler is off line. Boiler 2 (EU #2) is a Nebraska high pressure boiler equipped with an Ultra Low Oxides of Nitrogen Burner (ULNB) and flue gas recirculation. The boiler provides heat to the building and process steam to the recycling operation. The Nebraska high pressure boiler is subject to 40 CFR 60 Subpart Db and the emissions limits. .

C. The burning of natural gas or red dye distillate oil in the two (2) boilers will result in Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxides (NO_x), Carbon Monoxide (CO) and Volatile Organic Compounds (VOCs) emissions to the ambient air.

PAPER RECYCLING OPERATION

D. The components of the recycling operation include a warehouse, paper processing building and a water polishing building. Other ancillary components include a blower building, and equipment for process water polishing and chemical storage tanks.

E. The paper mill consisting of an existing stock preparation line, two paper machines and auxiliary equipment to recycle recovered fibers, including but not limited to old corrugated cardboard, newspapers and magazines, residential mixed paper and double line kraft clippings into a variety of paperboard products, including but not limited to laminated graphic board, paperboard, paper tube stock, and linerboard. The paper machines are flexible and can create different grades and thicknesses of paper. Paper machine No. 1 referred to herein as Emission Unit #3 ("EU#3") has 34 drum dryer cans with a maximum production rate of 20.9 air dried tons

finished product (ADTFP) per hour.

F. The second paper machine (EU #4) has 40 drum dryers and with a maximum production rate of 25.4 ADTFP per hour. EU #4 includes an in-line graphic board machine laminator (GBM laminator) where paper layers can be glued together using PVOH adhesive, cut into sheets, stacked and loaded onto pallets for shipping. The product is used in book covers, loose-leaf binder covers, displays, games and other applications.

G. Air quality plan approval TR #W111477 pursuant to 310 CMR 7.02, was issued to the Permittee on August 22, 2008 allowing increased production rates through the two paper manufacturing lines (EU#3 and #4).

H. This facility is classified as a major source of methanol air emissions. TR# W111477 requires that the Permittee comply with National Emission Standards for Hazardous Air Pollutants (HAPs) - 40 CFR 63, subpart JJJJ, Paper and Other Web Coating Industry (POWC). This Operating Permit contains the emission limits, monitoring, record keeping and reporting requirements as required by 40 CFR 63, subpart JJJJ for EU#4. EU#4 is considered a new source as defined in 40 CFR 63 because it was constructed or reconstructed after September 13, 2000 (effective date of 40 CFR 63, subpart JJJJ).

I. The incoming waste paper contains methanol as an ingredient of the lignin. Although the adhesive utilized on the laminating line (EU#4) is considered a coating it does not contain HAPs and therefore complies with the emission limit established in 40 CFR 63, subpart JJJJ.

J. The facility has fire pump engine (a diesel-fired compression ignition) installed in June 2003 (EU #5). It is a Clarke Model No JU6HUF30 with a maximum rating of 0.4074 million Btu per hour of heat input (160 HP). The fire pump engine is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Stationary Reciprocating Internal Combustion Engines (RICE) (40 CFR Part 63, Subpart ZZZZ). It is considered an existing emergency engine because it was installed before June 12, 2006 and must comply with Subpart ZZZZ by May 3, 2013. This Operating Permit contains the emission limits, monitoring, record-keeping and reporting requirements as required by 40 CFR 63, subpart ZZZZ for EU#5.

K. Compliance Assurance Monitoring (CAM) pursuant to 40 CFR 64 does not apply to this facility because air pollution control equipment is not utilized to meet an emission limit.

L. The design capacity throughput for the paper machines combined is 1,111 ADTFP per day.

2. EMISSION UNIT IDENTIFICATION

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

Table 1			
Emission Unit (EU#)	Description of Emission Unit	EU Design Capacity	Pollution Control Device (PCD)
EU #1	B&W high-pressure boiler Model No. FM-10-70B equipped with Coen Model Delta NOx-16 low NOx burner	30 MMBtu/hr	Low NOx Burner and Combustion Controls
EU #2	Nebraska boiler, Model No. N2S-8/S-97SH equipped with a Todd Ultra Low NOx Burner (ULNB)	230 MMBtu/hr.	Ultra Low Oxides of Nitrogen Burner (ULNB) and Flue Gas Recirculation
EU #3	Paper Machine No.1	20.9 ADTFP/hr	None
EU #4	Paper Machine No. 2	25.4 ADTFP/hr	
EU #5	Diesel Fire Pump Engine, Clark Model No JU6HUF30 (2003)	0.4074 MMBtu/hr 160 HP	None

Table 1 Key:
 MMBtu/hr = Million British Thermal Units per hour

3. IDENTIFICATION OF EXEMPT ACTIVITIES

The following are considered 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
The list of current exempt activities is contained in the Operating Permit application and shall be updated by the Permittee to reflect changes at the facility over the permit term. An up-to-date copy of exempt activities list shall be kept on-site at the facility and a copy shall be submitted to the MassDEP's Regional Office. Emissions from these activities shall be reported on the annual emissions statement pursuant to 310 CMR 7.12.	310 CMR 7.00:Appendix C(5)(h)

4. APPLICABLE REQUIREMENTS

A. EMISSION LIMITS AND RESTRICTIONS

The Permittee is subject to the emission limits/restrictions as contained in Tables 3, 3A, 3B, 3C, 3D, and 3D below:

Table 3									
EU #	Fuel/Raw Material	Pollutant	Emission Limits				Tons per 12 month rolling total	Applicable Regulation and/or (Approval No.)	
			Natural Gas		Red Dye Distillate Oil				
			lbs/MMBtu ¹	lbs/hr ²	lbs/MMBtu	lbs/hr			
EU #1	Natural Gas and Red Dye Distillate Oil	NOx	0.100	3.0	0.140	4.2	2.30	Tr#. W200007-A	
		CO	0.080	2.4	0.036	1.1	1.33		
		SO2	0.0006	0.02	0.054	1.62	0.88		
		PM	0.007	0.2	0.014	0.42	0.23		
		VOC	0.005	0.15	0.001	0.03	0.09		
		Visible Emissions	Opacity exclusive of uncombined water shall not exceed 10% for a period or aggregate period of time in excess of 2 minutes during any one-hour provided that at no time during the said 2 minutes shall the opacity exceed 20%.						
		Operating Restrictions	a. Boiler rating capacity shall not exceed 30 MMBtu/hr at all times of operation. b. Calendar Month fuel usage shall be limited to no more than 21,600 MCF of natural gas and 154,000 gallons of red dye distillate oil with a sulfur content not to exceed 0.05% by weight. 12-month rolling total fuel usage shall be limited to no more than 32,400 MCF of natural gas and 231,400 gallons of red dye distillate oil with a sulfur content not to exceed .05% by weight						

¹ lbs/MMBtu = pounds per million British thermal units

² lbs/hr = pounds per hour

Table 3								
EU #	Fuel/Raw Material	Pollutant	Emission Limits				Tons per 12 month rolling total	Applicable Regulation and/or (Approval No.)
			Natural Gas		Red Dye Distillate Oil			
			lbs/MMBtu ¹	lbs/hr ²	lbs/MMBtu	lbs/hr		
			c. EU #1 is rated at 30MMBtu/hr (million Btu per hour), cannot be operated at the same time as EU #2 and is not subject to NSPS Subpart Db. d. Compliance with the lb/MMBtu, lb/hr emission limits and 12 month rolling total fuel usage established in Table 3 shall be determined by emission compliance testing, if required, in accordance with 310 CMR 7.13 and the use of credible evidence including, but not limited to, parametric monitoring of boiler operations. e. Short term emission limits (lb/MMBtu and lb/hr) established in Table 3 are expressed as one-hour block averages and apply at all times the EU #1 is operating.					
Facility Wide	All	Greenhouse Gas (GHG) Emissions (Note 1)	N/A				310 CMR 7.71 "State Only" Requirement	

Note 1: Greenhouse gas (GHG) means any chemical or physical substance that is emitted into the air and that the MassDEP may reasonably anticipate will cause or contribute to climate change including, but not limited to, carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), sulfur hexafluoride (SF₆), hydrofluorocarbons (HFCs), and perfluorocarbons (PFCs).

Table 3A - EU #2						
Pollutant	Emission Limits					Applicable Regulation
	Short term Emission limit Natural Gas		Short term Emission Limit Red Dye Distillate Fuel Oil ³		Tons/12 month rolling total	
	lbs/MMBtu	lbs/hr	lbs/MMBtu	lbs/hr		
NOx	0.011	2.40	0.100	21.9	24.0	TR #. W200007-A
CO	0.019	4.4	0.100	21.9	34.1	
SO2	0.001	0.1	0.054	11.8	9.0	
PM	0.010	2.3	0.044	10.1	16.3	
VOC	0.001	0.3	0.005	1.1	1.8	
	a. Boiler rating capacity shall not exceed 230 MMBtu/hr at all times of operation.					

³ For calculating emissions when applying factors associated with Continuous Emission Monitors and fuel oil meters, or Emission Estimates the heat content of Natural Gas shall be 1,000 Btu per cubic foot and the heat content of Red Dye Distillate fuel oil shall be 132,000 Btu per gallon.

Table 3A - EU #2		
	Emission Limits	Applicable Regulation
Operating Restrictions	<p>b. Fuel of use shall be natural gas and distillate fuel oil. Fuel oil shall have a sulfur content not to exceed 0.003%S by weight and is limited to no more than 4,500,000 gallons of red dye distillate fuel oil over any 12 month rolling total period. Distillate fuel oil with a sulfur content of .05%S by weight shall not exceed 500,000 gallons during the period starting September 18, 2007 and ending at the end of the boilers life unless superseded by a later Approval. At any time EU #2 uses fuel oil with 0.05%S, the limit of 4,500,000 gallons of 0.003%S oil will be decreased gallon for gallon by the amount of 0.05%S oil used.</p> <p>c. 12 month rolling total fuel usage (gas and oil) shall be limited to 1,224,000 MMBtu/yr.</p> <p>d. Short term emission limits (lb/MMBtu and lb/hr) established in Table 3A are expressed as one-hour block averages. The short term emission limits apply at all times except they do not apply for NOx and CO during EU #2 start-ups, shutdowns and boiler tuning.</p> <p>e. NOx and CO emissions during EU#2 start-ups, shut-downs and boiler tuning shall be limited as indicated in Table 3B, and shall be included in an accounting of 12 month rolling total emission limits for EU #2 as established in Table 3A.</p> <p>f. Boiler rating capacity shall not exceed 230 MMBtu/hr at all times of operation.</p> <p>g. Fuel of use shall be natural gas and distillate fuel oil. Fuel oil shall have a sulfur content not to exceed 0.003%S by weight and is limited to no more than 4,500,000 gallons of red dye distillate fuel oil over any 12 month rolling total period. Distillate fuel oil with a sulfur content of .05%S by weight shall not exceed 500,000 gallons during the period starting September 18, 2007 and ending at the end of the boilers life unless superseded by a later Approval. At any time EU #2 uses fuel oil with 0.05%S, the limit of 4,500,000 gallons of 0.003%S oil will be decreased gallon for gallon by the amount of 0.05%S oil used.</p> <p>h. 12 month rolling total fuel usage (gas and oil) shall be limited to 1,224,000 MMBtu/yr.</p> <p>i. Short term emission limits (lb/MMBtu and lb/hr) established in Table 3A are expressed as one-hour block averages. The short term emission limits apply at all times except they do not apply for NOx and CO during EU #2 start-ups, shutdowns and boiler tuning.</p> <p>j. NOx and CO emissions during EU#2 start-ups, shut-downs and boiler tuning shall be limited as indicated in Table 3B, and shall be included in an accounting of 12 month rolling total emission limits for EU #2 as established in Table 3A.</p> <p>k. The Permittee shall demonstrate compliance with the lb/MMBtu, lb/hr and 12 month rolling total fuel and emission limits established in Table 3A using the following equations:</p> <ol style="list-style-type: none"> 1. lbs/MMBtu: Measured and recorded by a MassDEP approved Continuous Emission Monitoring system ("CEMS") at one minute intervals. Compliance with the lbs/MMBtu limits shall be determined by averaging the measured results over one hour block periods. 	

Table 3A - EU #2		
	Emission Limits	Applicable Regulation
	<p>2. Pound per hour: for Gas = {Actual Gas Fired Heat Input (cubic feet per hour x 1,000 Btu/cubic feet) x (Actual lb/MMBtu as measured by CEMS, hourly average)}. For Oil = {Actual Oil Fired Heat Input (gallons per hour x 132,000 Btu/gallon⁴) x (actual lb/MMBtu as measured by CEMS, hourly average)}</p> <p>3. Fuel: Actual Gas Fired Heat Input (cubic feet per month x 1,000 Btu/cubic feet) + Actual Oil Fired Heat Input (gallons per month x 132,000 Btu/gallon) plus total heat input (MMBtu) from previous 11 consecutive months (beginning on 1/01/08) by same method = < 1,224,000 MMBtu/yr.</p> <p>4. NOx: {Actual Gas Fired Heat Input (cubic feet per month x 1,000 Btu/cubic feet) x (Actual lb NOx /MMBtu as measured by CEMS, monthly average)} + {Actual Oil Fired Heat Input (gallons per month x 132,000 Btu/gallon) x (actual lb NOx /MMBtu as measured by CEMS, monthly average)} plus total NOx from previous 11 consecutive months (beginning on 1/01/08) by same method = <24.0 tons per year.</p> <p>5. CO: {Actual Gas Fired Heat Input (cubic feet per month x 1,000 Btu/cubic feet) x (Actual lb CO /MMBtu as measured by CEMS, monthly average)} + {Actual Oil Fired Heat</p>	

Table 3B - EU #2			
Start Up, Shut Down, Soot Blowing and Boiler Tuning Emission Limits			
Emissions from EU #2 that occur during startup, shutdown, soot blowing and boiler tuning shall not exceed the limits as contained in Table 3B.			
	FUEL		Applicable Requirement
	Natural Gas	Red Dye Distillate Fuel	
Pollutant	Pounds per startup event	Pounds per startup event	
NOx	19.2	175	TR# W200007
CO	126	258	
Visible emissions	Opacity exclusive of uncombined water shall not exceed 20% for a period or aggregate period of time in excess of 2 minutes during any one-hour provided that at no time during the said 2 minutes shall the opacity exceed 40%.		
Operating Restrictions	Startups shall not exceed 8 hours in length and shall terminate when the boiler reaches steady state operating conditions at the desired load. If there is an interruption in startup where the boiler is down for repair for more		

	than 1 hour, then the interruption is not included in this 8-hour limit.	
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Table 3C Emission Limits Paper Recycling Process (EU#3 and #4)					
EU #	Raw Materials	Pollutant	Emission Limit	Restrictions	Applicable Regulation and/or (Approval No.)
EU# 3 and EU# 4	Recovered Paper Fiber, water, and various additives	PM	Not to exceed 8.78 ton per year and 1 ton per month from all process related emissions (excluding combustion related PM emissions).	Production of paper products shall not exceed 15,550 ADTFP ¹ for paper line #1 and 18,900 ADTFP for paper line #2 (34,450 ADTFP ¹ combined per month) and 225,000 ADTFP per year for both PM	TR # W111477
		VOC's	Not to exceed 49.4 tons per year and 7.1 tons per month from all process related emissions including additives and combustion related VOC emissions; VOC's from additives shall not exceed 5.6 tons per year and 0.05 lb/ADTFP ¹ measured on an annual average. The VOC concentration of the following additives will be limited: dyes (45 wt %), on-line cleaners (10 wt %), biocides (5 wt %).		
		HAPs	Not to exceed 42.5 ton per year and 6.0 tons per month from all process related emissions including additives (excluding combustion related HAP emissions); HAPs from additives shall not exceed 1.0 tons per year.		
		Odor	No Detectable odor off site that may cause or contribute to a condition of air pollution		
		Visible Emissions	There shall be no smoke emissions from any process equipment vents. Opacity exclusive of uncombined water shall not exceed 5% at any time from any process equipment vents.		
EU #4		HAPs	Each coating material applied during the month \leq .016 kg organic HAP per kg coating material, as applied or \leq .08 kg organic HAP per kg coating solids as purchased .		40 CFR 63.3370(b) & (c)

¹ADTFP represents Air Dried Tons Finished Product

Table 3D Emission Factors and Tracking (EU#3 and EU #4)							
Facility Emission Points	A Monthly Production Rate (ADTFP)	B VOC Emission Factor (lb/ADTFP)	C VOC Monthly Emissions (tons)	D Total HAP Emission Factor (lb/ADTFP)	E Total HAP Monthly Emissions (tons)	F Total Particulate matter (PM) emissions (tons)	Applicable Requirement
EU#4 (Paper line 2)	Actual	0.373	=A*B/2000	0.373	=A*D/2000	NA	TR# W111477
EU #3 (Paper line 1)	Actual	0.314	=A*B/2000	0.314	=A*D/2000	NA	
Stock Prep (Note A)	Actual	0.017 lb/ODT	=A*B/2000	0.017 lb/ODT	=A*D/2000	NA	
Water Polishing (Note B)	Actual	0.0065	=A*B/2000	0.0065	=A*D/2000	NA	
Process Additives (Note C)	Actual Additives	1lb VOC/lb VOC used	=A*B/2000	1 lb Total HAP/lb Total HAP used	=A*D/2000	NA	
Boilers	NA	NA	From combustion emission record-keeping	NA	NA	From combustion emission record-keeping	
Total Emissions	Actual Total Production	NA	$\Sigma C \leq 7.1$	NA	$\Sigma E \leq 6.0$	=A*0.078/2000 (Note D)	
Rolling 12 month Emissions	NA	NA	≤ 49.4 (Note E)	NA	≤ 42.5 (Note E)	< 8.78 (Note D)	

Table 3D Notes:

- Note A:** Emission factor is in units of pounds per oven dried tons finished pulp (ODTP). “Oven dried” denotes no water remaining in paper.
- Note B:** Emission factor for water polishing is based on WATER9 results and is taken as an emission factor based on 0.73 tons per year divided by 225,000 ADTFP/yr.
- Note C:** All VOC and/or HAP added to the process are assumed to be emitted. Permittee may request permission to modify this assumption upon submission of appropriate information to the MassDEP.
- Note D:** In the event subsequent PM testing yields a higher PM emission rate than 0.078 lb/ADTFP, then the Permittee may request a modification to the allowable PM emission rate upon submission of appropriate information to MassDEP.
- Note E:** In the event subsequent VOC or HAP testing indicates a higher emission factor, the values for VOC or HAP emissions per ADTFP then the Permittee may request a modification to the allowable VOC or HAP emission rate upon submission of appropriate information to MassDEP.

Table 3E – EU #5		
Fuel	Operational Limits	Applicable Regulation
Diesel	<p>1. There is no time limit on the use of emergency stationary RICE in emergency situations.</p> <p>2. You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.</p> <p>3. You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(1)(iii), as long as the power provided by the financial arrangement is limited to emergency power.</p>	40 CFR 63.6640 (f)(1) (i) through (iii)
	<p>4. If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.</p>	40 CFR 63.6625(h)

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) and applicable requirements contained in Table 3.

Table 4	
EU#	Monitoring/Testing Requirements
EU #1 and EU #2	<p>A. In accordance with 310 CMR 7.13, MassDEP may require testing of any pollutants if deemed necessary to ascertain the mass emission rates and relationship to equipment design and operation. The Permittee shall conduct stack testing when MassDEP has determined that such stack testing is necessary to ascertain compliance with MassDEP's regulations or design approval provisions. Such stack testing shall be:</p> <ol style="list-style-type: none"> 1. Conducted by a person knowledgeable in stack testing, and 2. Conducted in accordance with the procedures contained in a test protocol, that has been approved by the MassDEP, and 3. Conducted in the presence of a representative of MassDEP, as may be deemed necessary by MassDEP. <p>B. Emission testing to demonstrate compliance with the Emission Limits specified herein shall be in accordance with EPA approved reference test methods unless otherwise approved by EPA and MassDEP. The Facility will be constructed to accommodate emission-testing requirements contained herein. Two outlet-sampling ports (90 degrees apart from each other) for every emission unit must be located at a minimum of one duct diameter upstream and two duct diameters downstream of any flow disturbance. All emission testing shall be conducted in accordance with MassDEP's "Guidelines for Source Emission Testing" and in accordance with the Environmental Protection Agency tests as specified in the Code of Federal Regulations Title 40, Part 60, Appendix A...Standards of Performance for New Stationary Sources of Air Pollution.</p> <p>C. In accordance with 310 CMR 7.04(4)(a) and TR# W 2000007, each emission unit shall be inspected and maintained in accordance with the manufacturer's 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 permitted equipment.</p>

Table 4	
EU#	Monitoring/Testing Requirements
EU #2	<p>D. The Permittee shall comply with all compliance testing and demonstration testing as identified in Federal New Source Performance Standards (NSPS) 40 CFR 60 subpart Db (NSPS for large boilers).</p> <p>E. Pursuant to TR W2000007 – A, the Permittee shall operate the COMS and CEMS serving EU #2 at all times except for periods of preventive maintenance, and periods of unavoidable malfunction. If the CEMS becomes inoperative for any reason, the Permittee shall use the portable emissions analyzer to measure NO_x, CO, and O₂ once per shift during any CEMS downtime and shall record the results. All records shall be maintained on-site for a minimum of five years and shall be made available to MassDEP personnel upon request.</p> <p>F. Pursuant to TR W2000007 –A, all periods of excess emissions from EU #2, even if attributable to an emergency or malfunction shall be quantified and included by the Permittee in the determination of emissions and compliance with the emission limits (“Excess Emissions” are defined as emissions, which are in excess of the short-term or 12 month rolling total emissions). An exceedance of emission limits herein due to an emergency or malfunction shall not be deemed a federally permitted release as that term is used in 42 U.S.C. Section 9601(10). The burden of demonstrating that an emergency or malfunction has occurred is the responsibility of the Permittee.</p>
EU #2	<p>G. Pursuant to TR W2000007- A, a quality assurance/quality control (QA/QC) program must be developed for the long-term operation of the CEMS serving EU #2.</p> <p>H. Pursuant to TR W2000007 –A, the Permittee shall allow MassDEP to witness tuning of EU #2 when requested by MassDEP.</p> <p>I. Pursuant to TR W2000007 –A, the Permittee shall install, calibrate, maintain and operate opacity monitoring/recording equipment and alarms in sufficient manner to ensure continuous and accurate operation at all times for EU #2.</p> <p>J. Pursuant to TR W2000007 –A, the Permittee shall obtain and record emission data from each CEMS and either of two existing COMS servicing the Facility for least 75% of the emission unit’s operating hours per day, for at least 75% of the emission units’ operating hours per month and for at least 95% of the emission unit’s operating hours per quarter, except for periods of CEMS and COMS calibration check, zero and span adjustments and preventive maintenance.</p> <p>K. Pursuant to TR W2000007 –A, the Permittee shall install, calibrate, test and operate a Data Acquisition and Handling System (“DAHS”), a CEMS and COMS to measure and record the following emissions for EU #2.</p> <ol style="list-style-type: none"> 1. Oxygen (O₂) 2. Oxides of Nitrogen (NO_x) 3. Carbon Monoxide (CO) 4. Opacity <p>L. Pursuant to TR W2000007 –A, the Permittee shall maintain an adequate supply of spare parts on-site to maintain the DAHS, COMS and CEMS equipment.</p> <p>M. Pursuant to TR W2000007 –A, the Permittee shall ensure that all emission monitors and recording equipment serving Boiler #2 comply with MassDEP and EPA approved performance and location specifications.</p>

Table 4	
EU#	Monitoring/Testing Requirements
	<p>N. Pursuant to TR W2000007 –A, the Permittee shall equip the COMS and CEMS with audible and visible alarms to activate whenever emissions from EU #2 exceed the limits. A portable emissions analyzer shall be utilized to measure NO_x, CO and O₂ during the investigation of any alarm condition and necessary corrective action shall be taken to bring the boiler to within approved levels except during startups and shutdowns.</p> <p>O. Pursuant to 310 CMR 7.04(2) continually operate a smoke density sensing instrument and recorder in accurate condition.</p> <p>P. Pursuant to 310 CMR 7.04(4) inspect and maintain the fossil fuel utilization facility in accordance with manufacturers’ recommendations and test for efficient operation at least annually.</p>
EU #4	<p>Q. The Permittee shall determine compliance with the organic HAP mass fraction of each coating material pursuant to 40 CFR 63.3360(c) and or with the solid content pursuant to 63.3360(d).</p> <p>R. The Permittee shall notify the MassDEP and EPA at least 60 days in advance of a performance test pursuant to 40 CFR 63.7.</p>
EU #5	<p>S. Pursuant to 40 CFR 63.6625 (f), the Permittee shall install a non-resettable hour meter if one is not already installed.</p> <p>T. Pursuant to 40 CFR 63.6625(i), if you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart, ... you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.</p>

Table 4	
EU#	Monitoring/Testing Requirements
Facility Wide	<p>U. The Permittee shall monitor the operations of the entire facility such that necessary information is available for the preparation of the Source Registration/Emission Statement Forms as required by 310 CMR 7.12.</p> <p>V. Any equipment or emission monitoring systems that may have been required to be installed for the purpose of documenting compliance with this approval shall be installed, calibrated, maintained and operated by the Permittee in sufficient manner to ensure continuous and accurate operations at all times in accordance with TR#W200007-A.</p> <p>W. The burden of demonstrating that an emergency or malfunction has occurred is the responsibility of the Permittee in accordance with TR#W200007-A.</p> <p>X. 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, sulfur hexafluoride 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).</p>

Table 5	
EU#	Record Keeping Requirements
EU #1 and #2	<p>In accordance with the provisions of the Final 7.02 Air Quality Plan Approval Transmittal No. W200007-A and No. W111477, the Permittee is subject to the terms and conditions presented in Table 5 and to other terms and conditions references herein.</p> <p>A. The Permittee shall keep operating and Maintenance log books. These log books shall contain the following information on a daily basis.</p> <ol style="list-style-type: none"> 1. Date and hours of operation of each boiler, fuel of use, date and time of any cold start-ups and complete shutdowns. 2. Date, time and description of any maintenance performed on each boiler, monitoring systems, breeching or stack. 3. Fuel inventory including the total amount and type of fuel burned on a monthly basis and fuel delivery records that show the type of oil and sulfur content of the fuel oil delivered. 4. Name of Company delivering the fuel oil including as a minimum, date of delivery, amount of fuel and truck ID number. 5. Name of natural gas supplier. <p>B. The Permittee shall maintain an on-site record keeping system for the emission units. All records shall be maintained up-to-date such that the year-to-date information is readily available for MassDEP examination. The Permittee shall keep all required records on site for five (5) years and make them available for inspection by MassDEP personnel upon request.</p> <ol style="list-style-type: none"> 1. Monthly records to document compliance with the emission limits and operating restrictions noted in Tables 3, 3A, 3B, 3C and 3D, including CEM & COM records, data collected and date, time and results of all calibrations and maintenance performed on the CEM and COM systems. 2. Records of the occurrence and reporting to MassDEP of any UPSETS or MALFUNCTIONS to the facility equipment, air pollution control equipment, or monitoring equipment which result in an excess emission to the ambient air and/or a condition of air pollution. 3. Records documenting the annual CEMS QA plan review meetings as required 4. Pursuant to 310 CMT 7.04(4) all records documenting that the fossil fuel utilization facility greater than 3 MM BTU/hr has been inspected, maintained in accordance with manufacturers' recommendations and tested for efficient operation at least annually. The results of said inspection and performance date shall be recorded and posted conspicuously.

Table 5	
EU#	Record Keeping Requirements
EU #3 and #4	<p>C. In accordance with TR# W111477 the Permittee shall keep Operating and Maintenance log books. These log books shall contain the following information:</p> <ol style="list-style-type: none"> 1. The name and amount of all VOC containing materials used in the facility (per month) 2. and amount of chemicals used per ADTFP of product produced (per day) 3. Finished production material (ADTFP per month) 4. Date and hours of operation of the recycling operation. (daily) 5. Name of Company(s) delivering the raw material including as a minimum, date of delivery, amount of paper waste and truck ID number and company contact name and phone number 6. Odor complaints received (nature of complaint, date, time and source if known and action taken) 7. Noise complaints received (nature of complaint, date, time and source if known and action taken) <p>D. In accordance with TR# W111477, the Permittee shall maintain adequate records on site, which document the final production rate over a rolling 12-month period in ADTFP.</p> <p>E. In order to verify that the Permittee does not exceed the emission and restrictions in Table 3C and Table 3D, the Permittee shall maintain on-site monthly records.</p>
EU #4	<p>F. The Permittee shall comply with the requirements contained in 40 CFR Part 63, Subpart JJJJ (Paper and other Web Coatings, MACT requirements).</p> <p>G. Pursuant to 40 CFR 63.3410(a)(1)(iii), the Permittee shall maintain monthly records on site to demonstrate compliance with the organic HAP limits established in 40 CFR Part 63, Subpart JJJJ (Paper and other Web Coatings, MACT requirements).</p> <p>H. Pursuant to 40 CFR 63.3410(a)(1)(vi) the Permittee shall maintain all records on material usage, organic HAP usage, volatile matter usage and coating solids usage and compliance demonstrations using these data in accordance with the requirements of § 63.3370(b), (c), and (d).</p> <p>I. Pursuant to 40 CFR 63. 10 (b) (2) (xiv) the Permittee must retain all documentation supporting initial notification and notifications of compliance status. Records must be retained for five years and be readily accessible for MassDEP or EPA personnel. At least two years must be retained on- site. The remaining three years may be retained off-site.</p>
EU #5	<p>J. Pursuant to 40 CFR 63.6655 (e), you must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan.</p> <p>K. Pursuant to 40 CFR 63.6655 (f), you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.</p>

Table 5	
EU#	Record Keeping Requirements
Facility Wide	<p>L. The Permittee shall maintain an Environmental Logbook, or equivalent, 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; and measures taken to maintain or lower overall emissions to the environment (air, odors, solid waste, etc.). This Environmental Logbook, or equivalent, shall be made available to MassDEP personnel upon request.</p> <p>M. The Permittee shall maintain sufficient records of operation and monitoring information for the preparation of a Source Registration/Emission Statement form as required by 310 CMR 7.12(3).</p> <p>N. 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)</p>

Table 6	
EU#	Reporting Requirements
EU#1&2	A. Pursuant to TR#W2000007-A submit reports on January 31 and July 31 of each year summarizing 6 month emission data to MassDEP.
EU#2	<p>B. Pursuant to NSPS , 40 CFR 60, subpart Db, submit excess emission and monitoring reports to MassDEP and EPA by January 31 and July 31 of each year</p> <p>C. The CEMs QA plan requires that quarterly data assessment reports (CEMS quarterly audit results) be submitted to MassDEP.</p>
EU#4	<p>D. Pursuant to 40 CFR 63.3400 submit to the EPA and MassDEP, an initial notification by no later than 120 days after becoming subject to the standard.</p> <p>E. Pursuant to 40 CFR 63.3400(c) by January 31 and July 31 of each year submit semi annual reports of emission monitoring system performance to MassDEP and EPA.</p> <p>F. Pursuant to 40 CFR 63.3400(e) submit a Notification of Compliance Status to EPA and MassDEP.</p>
Facility Wide	<p>G. The Regional Bureau of Waste Prevention, Compliance and Enforcement Section Chief must be notified by telephone or fax as soon as possible and in writing within two business days after the occurrence of any EMERGENCY or MALFUNCTIONS to the facility equipment, air pollution control equipment, or monitoring equipment which result in an excess emission to the ambient air and/or causes a condition of air pollution.</p> <p>H. Upon written request from MassDEP, the Permittee shall submit such records as may be determined by MassDEP to be necessary to ascertain compliance with the provisions of this approval. Said information shall be submitted to MassDEP within 30 days of the request or within a longer time period as indicated in writing by MassDEP. Said response shall be transmitted on paper, on computer disk, or electronically at the discretion of MassDEP.</p>

Table 6	
EU#	Reporting Requirements
	<p>I. By April 15th of each year, source registration shall be signed and submitted to the MassDEP In accordance with 310 CMR 7.12(2). The owner / operator shall provide such information as MassDEP may specify including the nature and amounts of emissions from the Facility, information which may be needed to determine the nature and amounts of emissions from the Facility, and any other information pertaining to the Facility which MassDEP requires. Copies of source registration shall be retained by the facility for five years from the date of submittal.</p> <p>J. 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 by 310 CMR 7.00: Appendix C(10)(c).</p> <p>K. Submit annual compliance report to MassDEP and EPA by January 30 of each year and as required by General Condition 10.</p> <p>L. In accordance with 310 CMR 7.71(5), by April 15th, 2010 and April 15th 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).</p> <p>M. 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).</p> <p>N. In accordance with 310 CMR 7.71(7), by December 31st of the applicable year submit to the Department documentation of triennial verification of the greenhouse gas emissions report. (State only requirement).</p>

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 and Title	Reason
310 CMR 7.07	Open burning not applicable to the facility
310 CMR 7.15	No asbestos at this facility
310 CMR 7.16	Does not meet threshold for occupant ride share program
42 U.S.C 7401, §112(r) Prevention of Accidental Release	Does not exceed process, usage or storage thresholds
40 CFR 64 CAM	No air pollution control equipment
40 CFR 82 Protection Of Stratospheric Ozone	Chemicals not used

5. SPECIAL TERMS AND CONDITIONS

The Permittee is subject to the following special provisions that are not contained in Tables 3, 3A-3E, 4, 5, and 6:

Table 8	
EU #	Special Terms and Conditions
EU #1	<p>A. EU #1 shall be equipped with a Coen Model Delta NOx-16 low-NOx burner system (or equivalent) capable of burning natural gas or red dye distillate oil at a rate not to exceed 30 million Btu per hour input. The Permittee shall notify MassDEP in writing at least thirty (30) days prior to replacing or modifying the Coen burner.</p> <p>B. The emissions from EU #1 shall be emitted to the ambient air through an existing round metal stack. The stack height shall be at least 65 feet above ground level with an inside exit diameter of at least 4.33 feet.</p> <p>C. EU #1 shall not be operated when EU #2 is in operation.</p> <p>D. The Permittee shall install, certify and operate a fixed fuel orifice on the EU #1 to physically restrict the flow of fuel to the boiler to no more than 214 gallons per hour of fuel oil and 30,000 cubic feet per hour of natural gas.</p> <p>E. Sulfur content of natural gas shall be as contained in the gas as supplied via the gas company supply pipeline.</p> <p>F. EU #1 shall be equipped with appropriate fuel flow meter(s) to monitor the fuel flow of natural gas and fuel oil.</p> <p>G. The Permittee shall maintain on site the operating and maintenance procedures for the burner.</p> <p>H. Pursuant to W200005, boiler #1 shall utilize noise suppressants on all steam release vents.</p>

Table 8

EU #	Special Terms and Conditions
EU #2	<p>I. EU #2 shall be equipped with a Todd Ultra Low-NOx burner system capable of burning natural gas or red dye distillate oil. The Permittee shall not modify or change the burner on EU #1 without MassDEP written approval.</p> <p>J. EU #2 shall be physically restricted to a fuel-firing rate not to exceed 230 million Btu per hour input. (Approximately equivalent to 230,000 cubic feet per hour of natural gas or 1742 gallons per hour of red dye distillate oil with a Btu per gallon value of 132,000.)</p> <p>K. The Permittee shall install, calibrate, maintain and operate a fuel-metering device and recorder for each fuel of use.</p> <p>L. The emissions from EU #2 shall be emitted to the ambient air through a new round metal stack. The stack height shall be at least 80 feet above ground level with an inside exit diameter of five feet.</p> <p>M. The Permittee shall maintain on site the operating and maintenance procedures for the EU #2 burner.</p> <p>N. The Permittee shall comply with Federal New Source Performance Standards 40 CFR Part 60, Subpart Db for EU #2</p> <p>O. Pursuant to W200005, boiler #2 shall utilize noise suppressants on all steam release vents.</p>
EU #3 and #4	<p>P. In accordance with TR# W200005 and W111477, the Permittee may not emit detectable odors at such a rate as to cause or contribute to a condition of air pollution off-site.</p> <p>Q. In accordance with TR# W200005 and W111477, the five roll-up doors used for access to the raw material receiving tipping floor shall remain closed when not in use to help prevent the release of fugitive Particulate Matter to the ambient air.</p> <p>R. In accordance with TR# W200005 and W111477, all VOC containing materials including wastes and rags that may contain solvent shall be stored in covered containers or tanks.</p> <p>S. The Permittee shall track monthly and 12-month rolling period emissions using the approved emission factors in Table 3D.</p> <p>T. The Permittee shall comply with 40 CFR 63, subpart JJJJ, Paper and Other Web Coatings (POWC) MACT for the Lamination Process on Paper Machine # 2.</p> <p>U. MassDEP reserves the right to require the Permittee to take additional measures to reduce emissions, including the installation of pollution control devices to abate or prevent a condition of air pollution.</p> <p>V. Emission Unit EU#4 is subject to the requirements of 40 CFR 63.1-15, Subpart A, "General Provisions. Compliance with all applicable provisions therein is required.</p>

Table 8	
EU #	Special Terms and Conditions
EU #5	<p>W. Emission Unit EU#5 is subject to the requirements of 40 CFR 63.1-15, Subpart A, “General Provisions. Compliance with all applicable provisions therein is required.</p> <p>X Pursuant to 40 CFR 63.6595(a)(1), if you have an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than May 3, 2013.</p> <p>Y. Pursuant to 40 CFR 63.6602 and the referenced Table 2C, for each Emergency stationary CI RICE.¹</p> <ul style="list-style-type: none"> a. Change oil and filter every 500 hours of operation or annually, whichever comes first;² b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.³ <p>Z Pursuant to 40 CFR 63.6625(e), you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.</p>
Facility Wide	<p>AA. <u>Noise Limitations And Control Requirements</u>: Regulation 310 CMR 7.10 “State-only” (Noise) prohibits excessive noise that may cause a condition of air pollution. MassDEP Noise Policy 90-001 provides that an increase in sound by more than 10dBA over the existing L90 ambient level (1-hour A-weighted), unless otherwise specified will be considered a violation of the air quality regulations. Additionally, pure tone sounds, defined, as any octave band level, which exceeds the levels in adjacent octave bands by 3dBA or more, will also be a violation.</p> <p>Noise Limits</p> <p>1. The facility shall be designed, constructed, operated and maintained such that at all times:</p> <ul style="list-style-type: none"> (a) No condition of air pollution will be caused by emissions of sound as provided in 310 CMR 7.01; (b) No sound emissions resulting in noise will occur as provided in 310 CMR 7.10 and MassDEP Policy 90-001.

Table 8 Notes

Note 1: If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of this subpart, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

Note 2: Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change requirement in Table 2c of this subpart.

Note 3: Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

6. ALTERNATIVE OPERATING SCENARIOS

The Permittee did not request alternative operating scenarios in its operating permit application.

7. EMISSIONS TRADING

A. INTRA-FACILITY EMISSION TRADING

The facility did not request intra-facility emissions trading in its operating permit application.

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 MassDEP pursuant to 310 CMR 7.00: Appendix B.

B. INTER-FACILITY EMISSION TRADING

The Permittee did not request inter-facility emissions trading in its operating permit application.

8. COMPLIANCE SCHEDULE

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.

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

GENERAL CONDITIONS FOR OPERATING PERMIT

9. FEES

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. COMPLIANCE CERTIFICATION

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/aqforms.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 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:

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

B. SEMI-ANNUAL MONITORING SUMMARY REPORT AND CERTIFICATION

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:

- i. the terms and conditions of the permit that are the basis of the certification;
- ii. the current compliance status during the reporting period;
- iii. the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods;
- iv. whether there were any deviations during the reporting period;
- v. if there are any outstanding deviations at the time of reporting, and the Corrective Action Plan to remedy said deviation;
- vi. whether deviations in the reporting period were previously reported;
- vii. if there are any outstanding deviations at the time of reporting, the proposed date of return to compliance;
- viii. if the deviations in the reporting period have returned to compliance and date of such

- return to compliance; and
- ix. 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:

- (i) the liability of the source for any violation of applicable requirements prior to or at the time of permit issuance.
- (ii) the applicable requirements of the Acid Rain Program, consistent with 42 U.S.C. §7401, §408(a); or
- (iii) the ability of EPA to obtain information under 42 U.S.C. §7401, §114 or §303 of the Act.

13. ENFORCEMENT

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. DUTY TO PROVIDE INFORMATION

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. INSPECTION AND ENTRY

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:

- A. 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;
- B. have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- C. inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- D. 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 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. EMERGENCY CONDITIONS

The Permittee shall be shielded from enforcement action brought for noncompliance with technology based⁵ emission limitations specified in this permit as a result of an emergency⁶. 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

⁵ 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.

⁶ 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.

as required by law.

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 or fax, within three (3) days of discovery of such deviation:

- 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.
- 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.
- Exceedances of permit operational limitations directly correlated to excess emissions.
- 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.
- 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 Massachusetts MassDEP of Environmental Protection 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/aqforms.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 or fax 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. MODIFICATIONS

- 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 Part 82, 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.

APPEAL CONDITIONS FOR OPERATING PERMIT

This permit is an action of the MassDEP. If you are aggrieved by this action, you may request an adjudicatory hearing within 21 days of issuance of this permit. In addition, any person who participates in any public participation process required by the Federal Clean Air Act, 42 U.S.C. §7401, §502(b)(6) or under 310 CMR 7.00: Appendix C(6), with respect to the MassDEP's final action on operating permits governing air emissions, and who has standing to sue with respect to the matter pursuant to federal constitutional law, may initiate an adjudicatory hearing pursuant to Chapter 30A, and may obtain judicial review, pursuant to Chapter 30A, of a final decision therein.

If an adjudicatory hearing is requested, the facility must continue to comply with all existing federal and state applicable requirements to which the facility is currently subject, until a final decision is issued in the case or the appeal is withdrawn. During this period, the application shield shall remain in effect, and the facility shall not be in violation of the Act for operating without a permit.

Under 310 CMR 1.01(6) (b), the request must state clearly and concisely the facts which are the grounds for the request, and the relief sought. Additionally, the request must state why the permit is not consistent with applicable laws and regulations. The hearing request along with a valid check payable to The Commonwealth of Massachusetts in the amount of one hundred dollars (\$100.00) must be mailed to The Commonwealth of Massachusetts, MassDEP, P.O. Box 4062, Boston, MA 02211

The request will be dismissed if the filing fee is not paid unless the appellant is exempt or granted a waiver as described below. The filing fee is not required if the appellant is a city or town (or municipal agency) county, or district of the Commonwealth of Massachusetts, or a municipal housing authority.

The MassDEP may waive the adjudicatory hearing filing fee for a person who shows that paying the fee will create an undue financial hardship. A person seeking a waiver must file, together with the hearing request as provided above, an affidavit setting forth the facts believed to support the claim of undue financial hardship.

30. LEGEND OF ABBREVIATED TERMS IN OPERATING PERMIT

*Not all abbreviations are present in every Operating Permit

< - Less Than

> - Greater Than

#/hr - Pounds per Hour

10⁶ BTU/hr - 1,000,000 BTU per Hour

AOS – Alternative Operating Scenario

AQCR - Air Quality Control Region

CEM - Continuous Emission Monitor

CO - Carbon Monoxide

EPA - Environmental Protection Agency

FMF FAC. NO. - Facility Master File Number

FMF RO NO. - Facility Master File Regulated Object Number

FT³/day - Cubic Feet per Day

HHV - Higher Heating Value

ISO - Represent 59°F, 60% Relative Humidity, 29.92 Inches Mercury At Sea Level

MACT- Maximum Achievable Control Technology

MassDEP - Massachusetts Department of Environmental Protection

MMBTU/hr - Million British Thermal Units per Hour

NH₃ - Ammonia

NO_x - Nitrogen Oxides

PB - Lead

PLT ID - Plant Identification

PM - Particulate Matter

PPM - Parts Per Million

PTE - Potential to Emit

SO₂ - Sulfur Dioxide

SSEIS - Stationary Source Emission Inventory System

TPY - Tons per Year

VOC - Volatile Organic Compound