Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection
Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

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AIR QUALITY OPERATING PERMIT

Issued by the Massachusetts Department of Environmental Protection ("Department" or "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"]:
Specialty Minerals, Inc.
260 Columbia Street
Adams, MA 01220

INFORMATION RELIED UPON:
Application No.: 18-AQ14/12-000007-APP
eplace Authorization No. AQ14-0000026
Approval No. WE-18-014

FACILITY LOCATION:
Specialty Minerals, Inc.
260 Columbia Street
Adams, MA 01220

FACILITY IDENTIFYING NUMBERS:
AQ ID: 1170042
FMF FAC NO.: 130060
FMF RO NO.: 50789

NATURE OF BUSINESS:
Lime Manufacturing; Mining & Quarrying of Nonmetallic Minerals

STANDARD INDUSTRIAL CLASSIFICATION (SIC):
1422, 2819 and 3274

NORTH AMERICAN INDUSTRIAL CLASSIFICATION SYSTEM (NAICS):
212312, 325180 and 327410

RESPONSIBLE OFFICIAL:
Name: Steven Thompson
Title: Works Manager

FACILITY CONTACT PERSON:
Name: Sharon Burke
Title: EH&S Manager
Phone: (413) 743-6251

This Operating Permit shall expire on 7/31/2025
For the Department of Environmental Protection

July 31, 2020

Michael Gorski
Regional Director
Department of Environmental Protection
Western Regional Office

Date

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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.

A. DESCRIPTION OF FACILITY AND OPERATIONS

Specialty Minerals Inc. ("SMI") submitted a Title V Operating Permit Renewal Application on August 3, 2018.

SMI owns and operates a limestone quarry and processing facility located in Adams, MA. SMI mines limestone from an open pit quarry located at the facility. The limestone ore is crushed in a primary jaw crusher. Oversized limestone is sent back through a secondary crusher. All of the properly sized limestone is then conveyed to the Teepee storage building, where a majority of the stone is sent to the impactor sizing dryer building to be milled into finer stone. The fine stone is then sent to the screen plant where various milling, screening, and classifying operations produce a variety of limestone products.

A portion of the crushed limestone is sent through a series of screens before being fed to one of the four fluidized bed kilns. In the lime kilns, high temperature processing is used to convert limestone ($CaCO_3$) into high calcium lime (CaO) and carbon dioxide (CO_2). This reaction involves calcination of the limestone. The resulting lime is then cooled in jacketed (water) cooling screws and stored in lime silos. The lime is then either bulk loaded or packaged as product or transferred to the precipitated calcium carbonate (PCC) operation. The resultant carbon dioxide is utilized in the carbonators to form PCC.

In the PCC operation, lime is slaked and re-carbonated. The PCC product can be in the form of a slurry or dried to various degrees and stored in product tanks. The PCC is then either bulk loaded or bagged.

In addition to the quarrying and production operations, there are a number of supporting operations at the SMI facility. These consist of a 12.2 million Btu per hour, natural gas and #2 fuel oil-fired Cleaver Brooks Model CB100X-300 boiler (constructed 1973) which is used to produce steam, one aqueous degreaser, fuel storage and handling operations (including a 6,000 gallon aboveground gasoline storage tank), mining related activities and various exempt and insignificant activities.

SMI installed a new Cummins Power Generation 2016 Model C36N6 70 Horsepower, 56 kilowatt electrical natural gas-fired emergency generator on July 12, 2017. The new emergency generator was certified to the MassDEP Environmental Results Program ("ERP") and is subject to 310 CMR 7.26(42), New Source Performance Standards ("NSPS") Subpart IIII and National Emission Standards for Hazardous Air Pollutants ("NESHAPS") Subpart ZZZZ.

The renewal application included proposed changes to remove the Alpine Classifier 5/500 ATP identified as Emission Unit #25 as well as the #4 Dryer Dry – T401 identified as Emission Unit #32 in Operating Permit 1-O-09-019. Emission Unit #25 has been removed from the facility and Emission Unit #32 is no longer operational and is scheduled to be removed from the facility. SMI plans to repurpose an existing Dry Material Storage Silo, Emission Unit #33, which will be designed to store product from the new Atritor Dryer (EU #49) for the new product packaging line (EU #51). Fugitive emissions from EU #33 will be controlled by a 1,325 ACFM Bin Vent Filter. SMI has requested that the Kek Cantilever Design Centrifugal Sifter reference be removed from Emission Unit #20 as it has been removed and is no longer part of the Raymond - Roller Mill. Also, SMI has modified EU #29 the dust collector controlling fugitive emissions from the feed bins serving Kilns #1 and #2. EU #29 now controls the emissions from the Kiln #3 feed bin as well as the feed bins for Kilns #1 and #2.

As part of this operating permit renewal application review, a compliance assurance monitoring (CAM) applicability determination was conducted. It was determined that Emission Unit #7 through Emission Unit #31, Emission Unit #33, Emission Unit #37 through Emission Unit #43 and Emission Units #47 through Emission Unit #52 are each subject to 40 CFR Part 64 since each pollutant-specific emission unit is subject to a federally enforceable emission limit for a regulated air pollutant, uses a fabric collector to comply with the federally enforceable emission limit and has the potential pre-control device emissions of a regulated air pollutant in an amount equal to or greater than 100 percent of a Title V major source threshold. Therefore, a detailed Compliance Assurance Monitoring Plan (CAM) was submitted in accordance with 40 CFR Part 64.

The facility is not subject to the federal Standards of Performance for Lime Manufacturing Plants, 40 CFR Part 60 Subpart HH, since this subpart only applies to rotary kilns and not fluidized bed kilns.

The facility is not subject to federal Standards of Performance for Calciners and Dryers in Mineral Industries, 40 CFR Part 60 Subpart UUU, since limestone is not a mineral listed in 40 CFR 60.731; therefore, the facility is not considered a mineral process plant under 40 CFR Part 60 Subpart UUU.

The National Emission Standards for Hazardous Air Pollutants (NESHAP) for Area Sources: Industrial, Commercial, and Institutional Boilers (40 CFR Part 63 Subpart JJJJJJ) applies to the existing natural gas and #2 fuel oil-fired 12.2 million Btu per hour Cleaver Brooks Model CB100X-300 boiler. According to Subpart JJJJJJ, the existing boiler must have complied with the applicable requirements of the subpart no later than March 21, 2014. In accordance with 40 CFR 63.11214(b), the Permittee submitted a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted an initial tune-up of the boiler on March 14, 2014.

In accordance with 40 CFR 63.11214(c), on July 16, 2014 the Permittee submitted a signed certification in the Notification of Compliance Status report that an energy assessment of the boiler and its energy use systems was completed according to Table 2 of 40 CFR Part 63 Subpart JJJJJJ and provided an accurate depiction of the facility.

The existing Emission Units #13, 18, 19, 20, 21, 24, 33, 40, 41, 42, 47, 48, 50, 51, and 52 are subject to the federal Standards of Performance for Nonmetallic Mineral Processing Plants, 40 CFR Part 60 Subpart OOO.

The 6,000-gallon aboveground gasoline storage tank, which is Emission Unit #44, was installed at the facility before November 9, 2006 (installed 1991) and is located at an area source of HAP. The storage tank has a monthly throughput less than 10,000 gallons**.** Therefore, the gasoline storage tank is subject to the federal National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities, 40 CFR Part 63 Subpart CCCCCC. The standards became effective on January 10, 2011 for existing affected sources.

Emission Unit #45, which is an existing aqueous degreaser is subject to 310 CMR 7.03(8), 310 CMR 7.18(8)(d) and 310 CMR 7.18(1). The applicable requirements have been included in this operating permit.

Emission Units #47 and #48, which are Tank 329 and Tank 330 of the bulk truck and rail Vicron loadout facility were approved in limited plan approval #1-P-05-029, issued August 23, 2005.

Emission Unit #49 a 14.5 MMBtu/hr atritor dryer-pulverizer, Emission Unit #50, a Hosokawa Micro-ACM air classification mill, Emission Unit #51 , a product packaging system and Emission Units #52 and #33, dry material storage silos, were approved in a Non-major Comprehensive Plan Approval #WE-18-004, e-place Authorization #18-AQ02P-0000003, issued May 9, 2018.

The facility is considered to be a major source since it has the potential to emit greater than 100 tons per year of particulate matter (PM) including PM10 (PM with an aerodynamic diameter equal to or less than 10 microns) and PM2.5 (PM with an aerodynamic diameter equal to or less than 2.5 microns), 50 tons per year of nitrogen oxides (NOx) and 100 tons per year of carbon monoxide. Therefore the facility is subject to the Operating Permit and Compliance Program pursuant to 310 CMR 7.00: Appendix C(2).

As the facility has the potential to emit 50 or more tons per year of NO_X, it is subject to the NO_X RACT requirements of 310 CMR 7.19. Specifically Kilns 3 & 4 (EU #5 and EU #6) are subject to 310 CMR 7.19(12) which required a source specific alternative RACT requiring the submission of a NOx RACT Emission Control Plan. On June 16, 1995, MassDEP issued NO_X RACT ECP Approval #1-P-94-022; Tr. #65843 which was approved by EPA under 40 CFR 52 Subpart W, §52.1120(d) and §52.1166(c)(119) as a Massachusetts SIP revision published in the Federal Register Vol. 64 September 2, 1999 (64 FR 48095).

The Permittee is subject to the requirements of Greenhouse Gas Emissions Reporting as defined by MassDEP in 310 CMR 7.71(3)(a).

Pursuant to 310 CMR 7.71(2) Definitions:

Greenhouse Gas means any chemical or physical substance that is emitted into the air and that MassDEP 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).

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 EU	EU Design Capacity	Stack ID	Pollution Control Device (PCD)
2	Boiler #1; Cleaver Brooks Model CB100X-300	12.2 MMBtu/hr	CG-2	None
3	Kiln #1 and Ancillary Equipment; Dorr-Oliver Model CE137	20.9 MMBtu/hr	FS-1	multicyclone & venturi scrubber
4	Kiln #2 and Ancillary Equipment; Dorr-Oliver Model CE137	22.3 MMBtu/hr	FS-2	cyclone & venturi scrubber
5	Kiln #3 and Ancillary Equipment; Dorr-Oliver Model "Dorroco Fluosolids System"	37.7 MMBtu/hr	FS-3	cyclone & venturi scrubber
6	Kiln #4 and Ancillary Equipment; Dorr-Oliver Model "Dorroco Fluosolids System"	39 MMBtu/hr	FS-4	cyclone & venturi scrubber
7	Belt Dryer #4; Proctor & Schwartz; Model K-13364-65	22 MMBtu/hr	G-15	fabric filter
8	Belt Dryer #5; Proctor & Schwartz; Model K-2612	16 MMBtu/hr	G-4S	fabric filter
9	Atritor Dryer #1; Atritor Model 20A	14.5 MMBtu/hr	F-23	Fabric filter
10	Flash Dryer #1; Combustion Engineering	10.3 MMBtu/hr	F-3	fabric filter
11	Flash Dryer #2; Combustion Engineering	10.3 MMBtu/hr	F-9	fabric filter
12	Fluid Bed Dryer; Dorr-Oliver	16.8 MMBtu/hr	A-5	fabric filter
13	Jaw Crusher KVE-Ken Model #160 Gyratory Crusher Allis Chalmer Model #10236	N/A	A-1	fabric filter
14	Hammermill Crusher Model #10236 Two (2) Tyler vibrating screens Model F-30	N/A	A-4	fabric filter
15	Tyler 800 screen Model F-30	N/A	A-2	fabric filter
16	Tee Pee	N/A	A-3	fabric filter
17	5 Mesh 500T	N/A	A-9	fabric filter
18	300 ton Dust Tank	N/A	A-13	fabric filter
19	#1 Raymond – Roller Mill	9 ton/hr	B-5	fabric filter
20	#2 Raymond – Roller Mill	30 ton/hr	B-6	fabric filter
21	#1 Patterson – Ball Mill	5.5 ton/hr	B-1	fabric filter
22	#2 Patterson (Pregrind) Ball-Mill	5.5 ton/hr	B-8	fabric filter
23	Majac #1 model 5/500 ATP	N/A	B-2	fabric filter
24	Majac #2 & #3 model 5/500 ATP	N/A	B-3	fabric filter
26	ATF Shed – New South Tank	N/A	C-4	fabric filter
27	Vicron Packer – Black Diamond Two spout	N/A	D-11	fabric filter
28	ATF Pack Shed – St. Regis	N/A	C-10	fabric filter
29	#1, #2 #3 Kiln Feed Bins	N/A	E-1	fabric filter
30	#4 Kiln Feed Tank	N/A	E-3	fabric filter
31	Kiln Building, Derrick Screens	N/A	E-6	fabric filter
33	Atritor Dry Material Storage Silo (repurposed)	1,325 ACFM	G-10	fabric filter
34	#4 Dryer Dry – T406	N/A	G-11	fabric filter

Table 1 (continued)

Emission Unit (EU #)	Description of EU	EU Design Capacity	Stack ID	Pollution Control Device (PCD)
35	Albacar Tank – T408	N/A	G-12	fabric filter
36	Hosokawa Mikro-ACM Air Classification Mill	N/A	F-19	fabric filter
37	Mikro-Atomizer #2 Model #8	N/A	F-21	fabric filter
38	Mikro-Atomizer #3 Model #8	N/A	F-25	fabric filter
39	Mikro-Atomizer #4 Model #8	N/A	F-26	fabric filter
40	Microsizers – Air Classifiers	N/A	B-15	fabric filter
41	Ambient Air Tubesheet – Cartridge Collector	N/A	B-16	fabric filter
42	Building 1300Vicron Airslide – Loadout	N/A	C-15	fabric filter
43	Building 1508 Lime Kiln Dust Truck to Rail Loadout	N/A	F-50	fabric filter
44	Aboveground Gasoline Storage Tank	6000 gallon	N/A	Stage I Vapor Recovery System
45	Aqueous Degreaser	N/A	N/A	None
47	Tank 329 of the Bulk Truck and Rail Vicron Loadout Facility	N/A	D-15	fabric filter
48	Tank 330 of the Bulk Truck and Rail Vicron Loadout Facility	N/A	D-16	fabric filter
49	Atritor Dryer-Pulverizer Model 20A	14.5 MMBtu/hr	F-57	fabric filter
50	Hosokawa Micro-ACM Air Classification Mill	5,000 ACFM	F-56	fabric filter
51	Product Packaging Line	5,000 ACFM	G-17	fabric filter
52	Micro-ACM Dry Material Storage Silo	1,325 ACFM	G-5	fabric filter
53	2016 Model C36N6 70 Horsepower Cummins Emergency Generator	0.49 MMBtu/hr		None

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 MassDEP's Regional Office. Emissions from these activities shall be reported on the annual emissions statement pursuant to Regulation 310 CMR 7.12.	310 CMR 7.00:Appendix C(5)(h)

4. APPLICABLE REQUIREMENTS

A. OPERATIONAL AND/OR PRODUCTION EMISSION LIMITS AND RESTRICTIONS

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

Table 3a

EU	Fuel/ Raw Material	Pollutant	Operational and/or Production Limits	Emissions Limits/Standards	Applicable Regulation and/or Approval No.
2	Natural Gas #2 Fuel Oil	PM[(2)]	None	≤ 0.10 lb/MMBtu #2 fuel oil ≤ 0.01 lb/MMBtu natural gas	Approval 1-P-04-019 dated 08/18/04
		Smoke		#1 of the Chart no more than 6 minutes during any one hour, no time to exceed #2 of the Chart	310 CMR 7.06(1)(a)
		Opacity		≤ 10% at all times boiler is in operation	Approval 1-P-04-019 dated 08/18/04
		Sulfur in #2 oil		≤ 0.05 % sulfur by weight	Approval 1-P-04-019 dated 08/18/04
				≤0.0015% sulfur by weight (15 ppm)	310 CMR 7.05(1)(a)1. Table 1
3 4 5 6	Natural Gas #2 Fuel Oil #6 Fuel Oil (Only EU 3 and EU 6 fire natural gas)	PM	None	≤ 0.12 lb/MMBtu[(3)] (EU 3, EU 4 and EU 5)	310 CMR 7.02(8)(d)
				≤ 0.10 lb/MMBtu[(3)] (EU 6)	310 CMR 7.02(8)(h)
		Sulfur in #2 fuel oil		≤0.0015% by weight	310 CMR 7.05(1)(a)1. Table 1
		Sulfur in #6 fuel oil		≤ 1.21 lb/MMBtu (≈2.2% sulfur by weight) #6 oil	310 CMR 7.05(1)(a)1. Table 1
		Smoke		#1 of the Chart no more than 6 minutes during any one hour, at no time to exceed #2 of the Chart	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)[(4)] Start-up Procedure dated 11/18/04
5	#2 Fuel Oil #6 Fuel Oil	NO_x	None	≤ 1.5 lb/ton lime produced ≤ 10.9 lb/hr	Approval 1-P-94-022 dated 06/16/95 310 CMR 7.19(12)
		CO		≤ 200 ppmvd corrected to 3% oxygen	Approval 1-P-94-022 dated 06/16/95 310 CMR 7.19(12)
		Oxygen and Temperature		Consistent with parameters established during most recent compliance demonstration test (completed on: 8/27/2003)	Approval 1-P-94-022 dated 06/16/95

Table 3b

EU	Fuel/ Raw Material	Pollutant	Operational and/or Production Limits	Emissions Limits/Standards	Applicable Regulation and/or Approval No.
6	Natural Gas #2 Fuel Oil #6 Fuel Oil	NO_x	None	≤ 1.5 lb/ton lime produced ≤ 11.2 lb/hr	Approval 1-P-94-022 dated 06/16/95
		CO		≤ 200 ppmvd corrected to 3% oxygen	
		Oxygen and Temperature		Consistent with parameters established during most recent compliance demonstration test (completed on: 8/27/2003)	
7 9 10 11 12	Natural Gas #2 Fuel Oil	Smoke	None	#1 of the Chart no more than 6 minutes during any one hour, at no time to exceed # 2 of the Chart	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)
7 9 10 11 12	#2 Fuel Oil	Sulfur in #2 fuel	None	≤0.0015% sulfur by weight	310 CMR 7.05(1)(a)1. Table 1
7	Natural Gas #2 Fuel Oil	PM	None	≤ 0.02 grains/actual cubic foot; ≤ 0.69 lb/hr; ≤ 3.00 tons per year(1)	Approval #B-80-IF-014 dated 12/1/1980 40 CFR 64 (CAM)
8	Natural Gas	PM	None	≤ 0.05 grams/dry standard cubic meter	Approval #1-P-00-054 dated 2/28/01 40 CFR 64 (CAM)
		Smoke		#1 of the Chart no more than 6 minutes during any one hour, at no time to exceed # 2 of the Chart	
		Opacity		≤ 7% opacity at all times	
				Belt Dryer #5 shall be operated such that there are no visible emissions from stack G4S or from Building 1100 during normal operation, including startup and shutdown.	
				No visible fugitive emissions shall be discharged from any Building 1100 exit point (other than stack vents)	
9	Natural Gas #2 Fuel Oil	PM	None	≤ 0.02 grains/standard cubic foot	Approval #1-P-91-009 dated 7/23/91 40 CFR 64 (CAM)
		NO_x		≤ 1.44 lb/hr; ≤ 6.31 tons per year(1)	
		SO_2		≤ 0.93 lb/hr; ≤ 4.07 tons per year(1)	

Table 3c					
EU	**Fuel/ Raw Material**	**Pollutant**	**Operational and/or Production Limits**	**Emissions Limits/Standards**	**Applicable Regulation and/or Approval No.**
10	Natural Gas #2 Fuel Oil	PM	None	≤ 3.69 lb/hr	Approval letter issued June 21, 1977 40 CFR 64 (CAM)
11	#2 Fuel Oil	PM	None	≤ 0.02 grains/actual cubic foot; ≤ 3.17 lb/hr; ≤ 13.89 tons per year(1)	Transmittal #109047 dated 1/25/05 40 CFR 64 (CAM)
12	#2 Fuel Oil	PM	None	≤ 0.02 grains /actual cubic foot; ≤ 2.06 lb/hr; ≤ 9.01 tons per year(1)	Transmittal #109047 dated 1/25/05 40 CFR 64 (CAM)
13	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter from the stack and vents	1-P-00-009; dated 06/13/00 40 CFR 60.672(a), (e)(1) and (e)(2) 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times from the stack and vents	
				No visible fugitive emissions shall be discharged from any exit point of the building (except for vents as defined in 40 CFR 60.671)	
14	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter	Approval 1-P-00-044 dated 03/01/01 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times	
				No visible fugitive emissions shall be discharged from any Building 200 exit point (other than stack vents)	
15	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter	Approval 1-P-00-042 dated 03/01/01 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times	
				No visible fugitive emissions shall be discharged from any Building 102 (TeePee) exit point (other than stack vents)	
16	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter	Approval 1-P-00-043 dated 03/01/01 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times	
				No visible fugitive emissions shall be discharged from any 800 Screen Building exit point (other than stack vents)	
17	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter	Approval 1-P-00-046 dated 03/02/01 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times	
				No visible fugitive emissions shall be discharged from any Building 201 exit point (other than stack vents)	

Table 3d

EU	Fuel/ Raw Material	Pollutant	Operational and/or Production Limits	Emissions Limits/Standards	Applicable Regulation and/or Approval No.
18	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter from the stack and vents	Approval 1-P-04-018 dated 08/18/04 40 CFR 60.672(a), (e)(1) and (e)(2) 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times from the stack and vents	
				No visible fugitive emissions shall be discharged from any 300 ton dust bin exit point (except for vents as defined in 40 CFR 60.671)	
19	Limestone	PM	9 tons per hour	≤ 0.05 grams/dry standard cubic meter from the stack and vents	Approval 1-P-03-043 dated 03/23/04 40 CFR 60.672(a), (e)(1) and (e)(2) 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times from the stack and vents	
				No visible fugitive emissions shall be discharged from any exit point of the Raymond Mill #1 building (except for vents as defined in 40 CFR 60.671)	
20	Limestone	PM	30 tons per hour	≤ 0.05 grams/dry standard cubic meter from the stack and vents	Approval 1-P-08-035 dated 12/4/08 Approval 1-P-05-007 dated 4/4/05 Approval 1-P-03-043 dated 03/23/04 40 CFR 60.672(a), (e)(1) and (e)(2) 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times from the stack and vents	
				No visible fugitive emissions shall be discharged from any exit point of the Raymond Mill #2 building (except for vents as defined in 40 CFR 60.671)	
21	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter from the stack and vents	Approval 1-P-00-047 dated 03/08/01 40 CFR 60.672(a), (e)(1) and (e)(2) 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times from the stack and vents	
				No visible fugitive emissions shall be discharged from any Building 300 exit point (except for vents as defined in 40 CFR 60.671)	

Table 3e

EU	Fuel/ Raw Material	Pollutant	Operational and/or Production Limits	Emissions Limits/Standards	Applicable Regulation and/or Approval No.
22	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter	Approval 1-P-00-049 dated 03/07/01 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times	
				No visible fugitive emissions shall be discharged from any Building 300 exit point (except for vents as defined in 40 CFR 60.671)	
23	Limestone	PM	None	≤ 0.02 grains/actual cubic foot ≤ 1.03 lb/hr ≤ 4.51 tons per year(1)	Transmittal #109047 dated 01/25/05 40 CFR 64 (CAM)
24	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter from the stack and vents	Approval 1-P-00-048 dated 03/08/01 40 CFR 60.672(a), (e)(1) and (e)(2) 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times from the stack and vents	
				No visible fugitive emissions shall be discharged from any Building 300 exit point (except for vents as defined in 40 CFR 60.671)	
26	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter	Approval 1-P-00-050 dated 03/07/01 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times	
				No visible fugitive emissions shall be discharged from any Building 1300 exit point (other than stack vents)	
27	Limestone	PM	None	≤ 0.005 grains/actual cubic foot ≤ 0.3 lb/hr	Approval B-83-IF-003 dated 04/26/83 Transmittal #109047 40 CFR 64 (CAM)
		Opacity		≤ 20%, except 20 to ≤ 40% for ≤ 2 minutes during any one hour	310 CMR 7.06(1)(b)
28	Limestone	PM	None	≤ 0.01 grains/actual cubic foot	Approval B-80-IF-001 dated 04/10/80 40 CFR 64 (CAM)
		Opacity		≤ 20%, except 20 to ≤ 40% for ≤ 2 minutes during any one hour	310 CMR 7.06(1)(b)

Table 3f					
EU	**Fuel/ Raw Material**	**Pollutant**	**Operational and/or Production Limits**	**Emissions Limits/Standards**	**Applicable Regulation and/or Approval No.**
29	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter	Approval 1-P-00-051; dated 03/07/01 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times	
				No visible fugitive emissions shall be discharged from any Building 500 exit point (other than stack vents)	
30	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter	Approval 1-P-00-052 dated 03/07/01 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times	
				No visible fugitive emissions shall be discharged from any Building 500 exit point (other than stack vents)	
31	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter	Approval 1-P-04-020 dated 08/18/04 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times	
				No visible fugitive emissions shall be discharged into the atmosphere from any Kiln Building exit point (other than stack vents).	
34 35 36 37	Precipitated calcium carbonate	Opacity	None	≤ 20%, except 20 to ≤ 40% for ≤ 2 minutes during any one hour	310 CMR 7.06(1)(b)
37	Precipitated calcium carbonate	PM	None	≤ 0.02 grains/actual cubic foot	Transmittal #109047 dated 01/25/05 40 CFR 64 (CAM)
38	Precipitated calcium carbonate	PM	None	≤ 0.02 grains/actual cubic foot	Approval 1-P-91-012 dated 02/03/92 40 CFR 64 (CAM)
39	Precipitated calcium carbonate	PM	None	≤ 0.02 grains/actual cubic foot	Approval 1-P-92-002 dated 03/03/92 40 CFR 64 (CAM)
40	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter from the stack and vents	Approval 1-P-00-025 dated 11/27/00 40 CFR 60.672(a), (e)(1) and (e)(2) 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times from the stack and vents	
				No visible fugitive emissions shall be discharged from any exit point of stone screen building (except for vents as defined in 40 CFR 60.671)	

Table 3g					
EU	**Fuel/ Raw Material**	**Pollutant**	**Operational and/or Production Limits**	**Emissions Limits/Standards**	**Applicable Regulation and/or Approval No.**
41	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter from the stack and vents	Approval 1-P-00-024 dated 11/27/00 40 CFR 60.672(a), (e)(1) and (e)(2) 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times from the stack and vents	
				No visible fugitive emissions shall be discharged from any exit point of stone screen building (except for vents as defined in 40 CFR 60.671)	
42	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter from the stack and vents	Approval 1-P-02-048 dated 10/14/03 40 CFR 60.672(a), (e)(1) and (e)(2) 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times from the stack and vents	
				No visible fugitive emissions shall be discharged from any exit point of Building 1300 (except for vents as defined in 40 CFR 60.671)	
43	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter	Approval 1-P-02-020 dated 10/14/03 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times	
				No visible fugitive emissions shall be discharged from any exit point of Building 1508 (except for stack vents).	
44	Gasoline Motor Vehicles Fuel	VOC	Maintain and Properly Operate Stage I Vapor Recovery System Restrict gasoline thru-put to less than 10,000 gallons per calendar month	None	310 CMR 7.03(13) 310 CMR 7.24(3) 310 CMR 7.24(6) 40 CFR Part 63 Subpart CCCCCC
45	Aqueous Cleaner	VOC	Each degreaser shall use less than 100 gallons of solvent per calendar month	Refer to Special Condition #29	Regulation 310 CMR 7.18(8)(d) Regulation 310 CMR 7.18(1) Regulation 310 CMR 7.03(8)

Table 3h					
EU	**Fuel/ Raw Material**	**Pollutant**	**Operational and/or Production Limits**	**Emissions Limits/Standards**	**Applicable Regulation and/or Approval No.**
47 48	Limestone	PM	None	≤ 0.05 grams/dry standard cubic meter from the stack and vents	Approval 1-P-05-029 dated 8/23/05 40 CFR 60.672(a), (e)(1) and (e)(2) 40 CFR 64 (CAM)
		Opacity		≤ 7% opacity at all times from the stack and vents	
				No visible fugitive emissions shall be discharged from any exit point (except for vents as defined in 40 CFR 60.671)	
49	Pipeline Quality Natural Gas/ Precipitated Calcium Carbonate	PM/PM_{10}	14.5 MMBtu/hr 52,500 Tons PCC in any consecutive 12-month period	0.01 grains/dry standard cubic foot 0.64 tons per month, 7.6 tons per year(1)	Approval WE-18-004 dated 5/09/18 40 CFR 64 (CAM)
		$PM_{2.5}$		0.01 grains/dry standard cubic foot 0.33 tons per month, 3.9 tons per year(1)	
		NO_X		0.10 lb/MMBtu 1.44 lb/hr 0.53 tons per month, 6.3 tons per year(1)	
		SO_2		0.003 lb/MMBtu 0.04 lb/hr 0.01 tons per month, 0.04 tons per year(1)	
		CO		0.08 lb/MMBtu 1.2 lb/hr 0.44 tons per month, 5.3 tons per year(1)	
		VOC		0.007 lb/MMBtu 0.10 lb/hr 0.03 tons per month, 0.35 tons per year(1)	
		Single HAP (Hexane)		0.01 tons per month, 0.12 tons per year(1)	
		Opacity		≤ 20%, except 20 to ≤ 40% for ≤ 2 minutes during any one hour	310 CMR 7.06(1)(b)
50 51	Precipitated Calcium Carbonate	PM/PM_{10}	None	0.01 grains/dry standard cubic foot 1.9 tons per year	Approval WE-18-004 dated 5/09/18 dated 40 CFR 64 (CAM) 40 CFR 60, Subpart OOO
		$PM_{2.5}$		0.01 grains/dry standard cubic foot 0.9 tons per year	
		Opacity		≤ 20%, except 20 to ≤ 40% for ≤ 2 minutes during any one hour	310 CMR 7.06(1)(b)

Table 3i					
EU	**Fuel/ Raw Material**	**Pollutant**	**Operational and/or Production Limits**	**Emissions Limits/Standards**	**Applicable Regulation and/or Approval No.**
33 52	Precipitated Calcium Carbonate	PM/PM_{10}	None	0.0016 pounds/ton[(5)], 0.10 tons per year[(1)]	Approval WE-18-004 dated 5/09/18 40 CFR 64 (CAM) 40 CFR 60, Subpart OOO
		$PM_{2.5}$		0.0006 pounds/ton[(5)], 0.04 tons per year[(1)]	
		Opacity		≤ 7% opacity at all times	
53	Natural Gas	N/A	Operate no more than 100 hours per calendar year	See Table 8 Special Terms and Conditions	310 CMR 7.26(42) ERP 40 CFR 60 Subpart JJJJ
Facility-wide	All	Greenhouse gas[(6)]	None	N/A	310 CMR 7.71 (State Only Requirement)

Table 3 Key:

EU = Emission Unit Number
NO_x = Nitrogen Oxides
CO = Carbon Monoxide
SO_2 = Sulfur Dioxide
PM = Total Particulate Matter
PM10 = Particulate Matter less than or equal to 10 microns in diameter
PM2.5 = Particulate Matter less than or equal to 2.5 microns in diameter
HAP (single) = maximum single Hazardous Air Pollutant
MMBtu/hr = Million British Thermal Units per hour
Opacity = exclusive of uncombined water vapor
PCC = Precipitated Calcium Carbonate
lbs/MMBtu = pounds per Million British thermal units
lbs/hr = pounds per hour
ppmvd @ 3% O2 = parts per million by volume, corrected to 3 percent oxygen
CAM = Compliance Assurance Monitoring
≤ = less than or equal to
% = percent

Table 3 Notes:

(1) Based on any 12 consecutive month period. To calculate the amount of any consecutive 12 month period, take the current calendar month amount and add it to the previous 11 calendar months total amount
(2) Particulate matter measured according to applicable procedures specified in 40 CFR Part 60 Appendix A, Method 5.
(3) Compliance with 310 CMR 7.02(8)(d) and 7.02(8)(h) shall be conducted in accordance with 310 CMR 7.02(8)(g).
(4) Specialty Minerals submitted a detailed startup procedure to the MassDEP on November 18, 2004 detailing operational methods employed to minimize opacity during startup.
(5) USEPA AP-42 provides emission rates for silos using Bin Vent Filters as pounds of PM_{10} per ton of material loaded into the silo.
(6) Green House 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)

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 4a

EU#	Monitoring And Testing Requirements
2	1. In accordance with 40 CFR 63.11201(b) and Table 2, the Permittee shall conduct an initial performance tune-up of EU #2 as specified in 40 CFR 63.11214, and conduct a tune-up of EU #2 biennially as specified in 40 CFR 63.11223(b)(1) through (7).
	2. In accordance with 40 CFR 63.11223(a) and (b)(1) through (5) and (b)(7), the Permittee shall conduct each tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. Each biennial performance tune-up must be conducted no more than 25 months after the previous tune-up. The tune-up shall be conducted as specified below. a. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. d. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. e. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable carbon monoxide analyzer. f. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.
2 3 4 5 6	3. In accordance with 310 CMR 7.04(4)(a), inspect and maintain the emission unit in accordance with the manufacturer's recommendations, and shall test it for efficient operation at least once in each calendar year. ***(Combustion efficiency for EU # 5 and 6 is continuously maintained for these emission units by monitoring kiln temperature and excess oxygen. This is done to minimize both NOx and CO formation. This monitoring satisfies this efficiency testing requirement. See MassDEP letter dated 11/24/04).***
7 8 9 10 11 12	4. In accordance with 310 CMR 7.00 Appendix C(9)(b), monitor sulfur content of each new shipment of oil received. Compliance with % sulfur-in-fuel requirements can be demonstrated by maintaining a shipping receipt from the fuel supplier (shipping receipt certification) or through testing (testing certification). The shipping receipt certification or testing certification of % sulfur-in-fuel shall document that sulfur testing has been done in accordance with the applicable ASTM test methods (D129-95, D1266-91, D1552-95, D2622-92, and D4294-90), or any other method approved by the MassDEP and EPA.

Table 4b	
EU#	**Monitoring And Testing Requirements**
5 6	5. In accordance with Approval 1-P-94-022 and 40 CFR 60, Appendix B, Performance specification 3, and Appendix F, install, operate and maintain a continuous oxygen monitor and recorder in EU 5 and 6 to track the percent excess oxygen in the flue gas from the kilns.
	6. In accordance with Approval 1-P-94-022, continuously monitor temperature in EU 5 and EU 6 to verify compliance with temperature parameter established during the most recent NO_x compliance stack test.
	7. In accordance with Approval 1-P-94-022, continuously monitor the oxygen concentration and verify compliance with the oxygen concentration established during the most recent NO_x compliance stack test.
	8. In accordance with Approval 1-P-94-022, keep records of fuel use on at least a daily basis.
	9. In accordance with Approval 1-P-94-022, at any future time upon request from the MassDEP, perform stack testing on EU 5 and EU 6 to demonstrate compliance with emission limits established herein. Stack testing shall be conducted in accordance with the appropriate test methods, as contained in 40 CFR 60, Appendix A.
7-24, 26-31, 33, 37-43 47-52	10. In accordance with 40 CFR 64 (CAM) and the CAM Plan (07/14/2009), calibrate, operate and maintain a visible emissions monitoring system with alarms, on all fabric filter control devices to notify operator if fabric filter bag failure occurs.
	11. In accordance with 40 CFR 64 (CAM) and the CAM Plan (07/14/2009), test the visible emissions monitoring system and alarms at least once per calendar year.
13 18 19 20 21 24 40 41 42 47 48	12. In accordance with 40 CFR 60.675, use Method 5 or Method 17 to determine the particulate matter concentration. Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity with the following additions: a. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet) and b. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g. road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.
	13. The Permittee shall comply with all applicable monitoring and testing requirements contained in 40 CFR 60.674 and 60.675.
42 43	14. In accordance with Approval 1-P-02-048 and Approval 1-P-02-048, the Permittee shall operate and maintain differential pressure gauges and air pressure gauges on the pulsed air inlet lines of the fabric filter dust collector.
44	15. In accordance with 310 CMR 7.24(3)(e)1.b., the Permittee shall conduct the following compliance tests for aboveground storage tank systems, as applicable: a. Determination of Static Pressure Performance of Vapor Recovery Systems at Gasoline Dispensing Facilities with Aboveground Storage Tanks in Exhibit 4 of CARB Executive Order VR-401-C (June 30, 2013) and CARB Executive Order VR-402-B (April 15, 2013); b. Static Torque Rotatable Adaptor Test per CARB Test Procedure TP-201.1B (October 8, 2003), if rotatable adaptors are installed; and c. Pressure /Vacuum Vent Valve Test per CARB Test Procedure TP-201.1E (October 8, 2003).
	16. In accordance with 310 CMR 7.24(3)(d)1., the Permittee shall install, operate, repair and maintain the Stage I system in accordance with the system's applicable Executive Orders and manufacturer's guidance.

Table 4c

EU#	Monitoring And Testing Requirements
44	17. In accordance with 310 CMR 7.24(3)(d)2., the Permittee shall visually inspect or cause to be visually inspected the Stage I system once every seven days to determine that the system and its components are unbroken, correctly installed and functioning. Each visual inspection shall include, but not be limited to, inspection of: coaxial adaptors; fuel and vapor rotatable adaptors; dust caps and gaskets; fuel and vapor spill buckets; drain valves; and pressure/vacuum vent valves. The owner/operator shall ensure that: a. Visual Inspections shall be performed only by a person who is trained to operate and maintain the Stage I system in accordance with the applicable manufacturer's guidance; and b. A current record of all persons trained shall be maintained on site, including the date training was last received and the trainee's printed name and signature acknowledging receipt of the training.
45	18. In accordance with 310 CMR 7.18(8)(h), upon request by MassDEP, perform or have performed tests to demonstrate compliance. Testing shall be conducted in accordance with a method approved by MassDEP and EPA.
7-24, 26-31, 33-43 47,48	22. In accordance with Approval 1-P-04-028, 40 CFR 64 (CAM) and the CAM Plan (07/14/2009), if the B-PAC monitoring system is not functional for a specific baghouse, the Permittee shall perform, weather and process operation permitting, at least once for each calendar day that any process equipment that utilizes that specific baghouse is operating, a Modified Method 22 Visual Determination of Fugitive Emissions.(1) If a B-PAC system, for a baghouse with a stack located inside a process building, is not functional, Method 22 "Short Test" for fugitive emissions will be conducted on the process building. This observation will be conducted once per day until the B-PAC system is repaired. In this case no minimum observation is specified. MassDEP requires that anyone performing the M-22s Test must be familiar with the process and must observe the stack long enough to be able to include in his observations any time-dependent process variations that may increase visible emissions.
49	23. In accordance with 310 CMR 7.04(4)(a), inspect and maintain the emission unit in accordance with the manufacturer's recommendations, and test it for efficient operation at least once each calendar year.
	24. In accordance with Approval WE-18-004, monitor natural gas usage of the atritor dryer.
49 50 51	25. In accordance with 40 CFR §60.675(b)(1), the Permittee shall determine compliance with the PM emission limits in Table 2 using US EPA Method 5 or EPA Method 17 of 40 CFR 60 Appendix A to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 °C (250 °F) to prevent water condensation on the filter.
	26. In accordance with 40 CFR §60.675(d)(1) the Permittee must conduct an initial Method 9 performance test in accordance with 40 CFR §60.675(c)(1) and §60.11 if the building encloses any affected facility that commences construction, modification, or reconstruction on or after April, 22, 2008.
49 50 51 52 33	27. In accordance with 40 CFR 64 (CAM) and the CAM Plan (07/14/2009), if the FilterSense® monitoring system is not functional for a specific baghouse, the Permittee shall perform, weather and process operation permitting, at least once for each calendar day that any process equipment that utilizes that specific baghouse is operating, a Modified Method 22 - Visual Determination of Fugitive Emissions. The Modified Method 22 test is performed identically as the Method 22 - Visual Determination of Fugitive Emissions except for the length of observation, which shall have no minimum observation time, and is also described as a "Method 22 'Short' Test" or "M-22 Test" (1). If a FilterSense® system for a baghouse with a stack located inside a process building is not functional, a Method 22 "Short Test" for fugitive emissions will be conducted on the process building. This observation will be conducted once per day until the FilterSense® system is repaired. In this case no minimum observation is specified. MassDEP requires that anyone performing the Method 22 Test must be familiar with the process and must observe the stack long enough to be able to include his/her observations any time-dependent process variations that may increase visible emissions.

Table 4d	
EU#	**Monitoring And Testing Requirements**
49 50 51 52 33	28. In accordance with 40 CFR §60.674(d) the Permittee may use a bag leak detection system as an alternative to the periodic Method 22 visible emissions inspections specified in 40 CFR §60.674(c) for any facility, that uses a baghouse to control emissions, which construction, modification, or reconstruction commenced on or after April 22, 2008.
	29. In accordance with 40 CFR §60.674(d)(1) through (3) and the facility CAM Plan (07/14/2009), install, operate and maintain the bag leak detection system.
33 52	30. In accordance with 40 CFR 60.672(f) and Table 2 to Subpart OOO, the Permittee must conduct an initial Method 9 performance test to demonstrate compliance with the opacity limits in Table 2 to Subpart OOO of Part 60.
53	31. In accordance with 310 CMR 7.26(42)(d)1., a non-turn-back hour counter shall be installed, operated and maintained in good working order.
Facility-Wide	32. The Permittee shall monitor all operations to ensure sufficient information is available to comply with 310 CMR 7.12 Source Registration.
	33. In accordance with 310 CMR 7.13 Stack Testing conduct stack testing, upon written request of MassDEP, for any air contaminant for which MassDEP has determined testing is necessary, to ascertain compliance with MassDEP's regulations or design approval provisos. All such testing shall be conducted in accordance with 310 CMR 7.13 (1) and (2), and in accordance with the applicable procedures specified in 40 CFR 60 Appendix A or other method if approved by MassDEP and EPA. In accordance with 310 CMR 7.00 Appendix C(9)(b), any emission testing to demonstrate compliance with the allowable emission limits shall be in accordance with EPA Methods 1-5 for particulate matter, Method 7E for NOx, Method 10 for CO, and Method 9 for smoke/opacity, as specified in 40 CFR 60, Appendix A.
	34. 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 4 Key:

EU # = Emission Unit
ASTM = American Society for Testing & Materials
CO2e = Carbon Dioxide Equivalent
CAM = Compliance Assurance Monitoring
CARB = California Air Resources Board
CEMS = Continuous Emission Monitoring System
CFR = Code of Federal Regulations
CMR = Code of Massachusetts Regulations
CO = Carbon Monoxide
HAP = Hazardous Air Pollutant
EPA = Environmental Protection Agency
NO_X = Nitrogen Oxides
M-22s = EPA Method 22 Short Test
PM = Particulate Matter
°C = degrees Centigrade
°F = degrees Fahrenheit
% = Percent
≤ = Less than or Equal To

Table 4 Notes:

(1) The Modified Method 22 Test is also known as a "Method 22 Short Test" or "M-22" Test and is performed identically as the Method 22 – Visual Determination of Fugitive Emissions Test except for the length of observation, for which no minimum time is specified. The test must be long enough to encompass any time-dependent process variations which may increase visible emissions.

Table 5a	
EU#	**Recordkeeping Requirements**
2	1. In accordance with Approval 1-P-04-019, maintain records of fuel type, fuel additives, and fuel usage (in gallons or cubic feet).
	2. In accordance with Approval 1-P-04-019, maintain records of routine maintenance activities on the boiler, including, at a minimum, the type or a description of the maintenance performed and the date and time the work was completed.
	3. In accordance with Approval 1-P-04-019, maintain records of all malfunctions of the boiler that change the amount of air emissions, including, at a minimum: the date and time the malfunction occurred; a description of the malfunction and the corrective action taken; the date and time corrective actions were initiated; and the date and time corrective actions were completed and the facility returned to compliance.
	4. In accordance with 40 CFR 63.11225(c)(1), (c)(2)(i), (c)(2) (iii),(c) (4), (c)(5), the Permittee shall maintain the following records: a. As required in 40 CFR 63.10(b)(2)(xiv), keep a copy of each notification and report that is submitted to comply with 40 CFR Part 63, Subpart JJJJJJ and all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted. b. The identity of each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned. c. A copy of the energy assessment report. d. Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment. e. Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR 63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.
	5. In accordance with 40 CFR 63.11223(b)(6), the Permittee shall maintain on-site and submit, if requested by MassDEP or the USEPA, a report containing the information in paragraphs 40 CFR 63.11223(b)(6)(i) through (iii) and as specified below. a. The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. b. A description of any corrective actions taken as a part of the tune-up of the boiler. c. The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.
	6. In accordance with 40 CFR 63.11225(d), the records must be in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. You must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. You may keep the records off site for the remaining 3 years.
2 3 4 5 6 7 8 9 10 11 12	7. In accordance with 310 CMR 7.04(4)(a), the results of fuel utilization facility inspection, maintenance, and testing and the date upon which it was performed shall be recorded and posted conspicuously on or near the facility.

Table 5b

EU#	Recordkeeping Requirements
2 3 4 5 6 7 9 10 11 12	8. In accordance with 310 CMR 7.00 Appendix C(10)(b), record the certification from the fuel supplier for each shipment of #2 fuel oil and #6 fuel oil (for EU #3,4,5,6) to be used which shall include the following information: a. The name of the oil supplier; b. Percent sulfur content (by weight); and c. The location where the sample was drawn for analysis to determine the sulfur content of the oil, specifically including whether the oil was sampled as delivered to the affected facility or whether the sample was drawn from oil in storage at the oil supplier's or oil refiner's facility or other location. As an alternative, the Permittee may elect to analyze the oil immediately after the fuel storage tank is filled and before any oil is combusted for each new shipment according to methods approved by the MassDEP. These records shall be maintained on-site.
3 4 5 6	9. In accordance with 310 CMR 7.00: Appendix C(10)(b), maintain records of annual kiln inspections on-site for 5 years.
3 4	10. In accordance with 310 CMR: Appendix C(10)(b), maintain temperature and oxygen monitoring records.
5 6	11. In accordance with Approval 1-P-94-022, keep records of fuel use in EU 5 and 6 on at least a daily basis.
	12. In accordance with Approval 1-P-94-022, maintain a record of all measurements, performance evaluations, calibration checks and maintenance or adjustments for each continuous oxygen monitor.
	13. In accordance with 310 CMR: Appendix C(10)(b), maintain temperature and oxygen monitoring records for these units to demonstrate compliance
7 8 9 10 11 12	14. In accordance with 310 CMR 7.00: Appendix C(10)(b), maintain records of annual dryer inspections on-site for 5 years.
8 14 15 16 17 21 22 24 26 29 30 31 42 43 47 48	15. In accordance with Approvals1-P-00-054,1-P-00-044,1-P-00-042, 1-P-00-043, 1-P-00-046,1-P-00-047, 1-P-00-049, 1-P-00-048, 1-P-00-050, 1-P-00-051,1-P-00-052 , 1-P-04-020, 1-P-02-048, 1-P-02-020 and 1-P-05-029 (as applicable), maintain records of routine maintenance activities on the emission unit, including, at a minimum, the type or a description of the maintenance performed and the date and time the work was completed.
	16. In accordance with Approvals 1-P-00-054,1-P-00-044,1-P-00-042,1-P-00-043,1-P-00-046,1-P-00-047,1-P-00-049, 1-P-00-048, 1-P-00-050, 1-P-00-051, 1-P-00-052, 1-P-04-020, 1-P-02-048, 1-P-02-020 and 1-P-05-029 (as applicable), maintain records of all malfunctions of the emission unit that could result in a change in air emissions, including, at a minimum: the date and time the malfunction occurred; a description of the malfunction and the corrective action taken; the date and time corrective actions were initiated; and the date and time corrective actions were completed and the facility returned to compliance.
	17. In accordance with Approvals 1-P-00-054,1-P-00-044, 1-P-00-042,1-P-00-043,1-P-00-046, 1-P-00-047, 1-P-00-049,1-P-00-048, 1-P-00-050,1-P-00-051,1-P-00-052, 1-P-02-048, 1-P-02-020 and 1-P-05-029 (as applicable), maintain all records up-to-date such that year –to-date information is readily available for MassDEP examination. Records shall be kept for at least five calendar years.
9	18. In accordance with 1-P-91-009, maintain a logbook, which may be part of the operations log, to record maintenance activities and any system failures. This log should be maintained on site and made available for inspection on request.

Table 5c	
EU#	**Recordkeeping Requirements**
13 18 19 20 21 24 40 41 42 47 48	19. In accordance with 40 CFR 60.7, maintain records of occurrences and duration of any startup, shutdown, or malfunction.
	20. The Permittee shall comply with all applicable recordkeeping requirements contained in 40 CFR 60.676.
18 19 20	21. In accordance with Approval #1-P-04-018, Approval #1-P-03-043 and Approval #1-P-05-007 (EU #20), maintain records of routine maintenance activities on the equipment, including, at a minimum, the type or a description of the maintenance performed and the date and time the work was completed.
	22. In accordance with Approval #1-P-04-018, Approval #1-P-03-043 and Approval #1-P-05-007 (EU #20), maintain records of all malfunctions of the equipment that could result in a change in air emissions, including, at a minimum: the date and time the malfunction occurred; a description of the malfunction and the corrective action taken; the date and time corrective actions were initiated; and the date and time corrective actions were completed and the facility returned to compliance.
20	23. In accordance with Approval #1-P-08-035, the Permittee shall maintain records of all Method 22 Visual Determination of Fugitive Emissions conducted on the Raymond #2 Mill Building. Records shall be kept for at least five calendar years.
7-24, 26-31 33, 37-43, 47-52	24. In accordance with 310 CMR 7.00 Appendix C(10)(b), 40 CFR 64 (CAM) and the CAM Plan (07/14/2009), maintain records of the continuous visible monitoring system and records of the system alarms including any fabric filter bag failures.
	25. In accordance with 310 CMR 7.00 Appendix C(10)(b), 40 CFR 64 (CAM) and the CAM Plan (07/14/2009), maintain records of the results from the annual visible monitoring system and alarms tests.
44	26. In accordance with 310 CMR 7.24(3)(d)2.b., a visual inspection of a Stage I system to meet the requirements of 310 CMR 7.24(3)(d)2.a. shall be performed only by a person who is trained to operate and maintain the Stage I system as required by the terms and conditions of the system's currently applicable Executive Order and manufacturer's guidance. A current record of all persons trained shall be maintained on site and shall include the following: a. The date training was last received; b. The trainee's printed name; and c. The personal signature of the trainee acknowledging receipt of the training.
	27. In accordance with 310 CMR 7.24(3)(d)6., the Permittee shall retain on-site in a centralized location in either hard copy or electronic format, the following records: a. All of the visual inspection checklists for the prior rolling twelve-month period. b. A copy of compliance testing company test results for compliance tests during the prior rolling 12-month period. c. A copy of the Stage I system's most recent In-Use Compliance Certification in accordance with 310 CMR 7.24(3)(e)4., or, if more recent, a copy of the Stage I system's Installation/Substantial Modification Certification in accordance with 310 CMR 7.24(3)(e)3. d. The date and type of Stage I Routine Maintenance performed in the most recent rolling 12-month period in accordance with 310 CMR 7.24(3)(e)2.a.

Table 5d

EU#	Recordkeeping Requirements
44	28. In accordance with 310 CMR 7.24(3)(d)7., all records maintained pursuant to 310 CMR 7.24(3)(d)6 shall be made available to the MassDEP or the US EPA immediately upon request. In the event requested records cannot be made immediately available, requested records shall be delivered to the MassDEP or the US EPA, as applicable, within seven business days of the initial request.
	29. In accordance with 40 CFR 63.1115(b), the Permittee must keep applicable records as specified in 40 CFR 63.11125(d).
	30. In accordance with 40 CFR 63.11125(d)(1), the Permittee shall keep records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.
	31. In accordance with 40 CFR 63.11125(d)(2), the Permittee shall keep records of actions taken during periods of malfunction to minimize emission in accordance with 40 CFR 63.11115(a), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
45	32. In accordance with 310 CMR 7.03(6), establish and maintain a recordkeeping system on-site and in sufficient detail to document the date of construction, substantial reconstruction or alteration and that the respective emission rates, operational limitations, equipment specifications and other requirements pursuant to 310 CMR 7.03 are met. All records shall be maintained up-to-date such that year-to-date information is readily available for Department examination.
	33. In accordance with 310 CMR 7.18(8)(g), prepare and maintain daily records sufficient to demonstrate continuous compliance. Records kept to demonstrate compliance shall be kept on site for three years and shall be made available to representatives of the Department and EPA in accordance with the requirements of an approved compliance plan or upon request. Such records shall include, but are not limited to: a. identity, quantity, formulation and density of solvent(s) used; b. quantity, formulation and density of all waste solvent(s) generated; c. actual operational and performance characteristics of the degreaser and any appurtenant emission capture and control equipment, if applicable; and d. any other requirements specified by the Department in any approval(s) and/or order(s) issued to the person.
7-24, 26-31, 34-43, 47, 48	34. In accordance with Approval 1-P-04-028, record the results of all M-22s Test observations performed in a written log, and make this log available to the MassDEP upon request. This log shall minimally consist of the date, time of the observation, the reason the observation was being performed (why the B-PAC monitoring system was not available), the result of the observation, the specific location where any visible emissions were observed, the reason for the visible emissions, the time the visible emissions returned to baseline, the time any corrective action(s) were completed, and the initials of the person making the observation.
49	35. In accordance with 310 CMR 7.04(4)(a), the results of fuel utilization facility inspection, maintenance, and testing and the date upon which it was performed shall be recorded and posted conspicuously on or near the facility.
	36. In accordance with Approval WE-18-004, maintain hourly natural gas usage in standard cubic feet per hour ("SCFH") of the atritor dryer.
49 50 51 52 33	37. In accordance with Approval WE-18-004, and 40 CFR 60 §676(b)(2), for each bag leak detection system installed and operated according to §60.674(d), the Permittee must keep the following records: (a) Records of the bag leak detection system output. (b) Records of bag leak detection system adjustments, including the date and time of the adjustment, the initial bag leak detection settings, and the final bag leak detection system settings; and (c) The date and time of all bag leak detection system alarms, the time that procedures to determine the cause of the alarm were initiated, the cause of the alarm, an explanation of the actions taken, the date and time the cause of the alarm was alleviated, and whether the cause of the alarm was alleviated within 3-hours of the alarm.

Table 5e

EU#	Recordkeeping Requirements
49 50 51 52 33	38. In accordance with Approval WE-18-004, record the results of all M-22s Test observations performed in a written log, and make this log available to the MassDEP upon request. This log shall minimally consist of the date, time of the observation, the reason the observation was being performed (why the FilterSense® monitoring system was not available), the result of the observation, the specific location where any visible emissions were observed, the reason for the visible emissions, the time the visible emissions returned to baseline, the time any corrective action(s) were completed, and the initials of the person making the observation.
53	39. In accordance with 310 CMR 7.26(42)(f), the owner or operator shall maintain on site or, for remote locations, at the closest facility where records can be maintained, the following records: a. Information on equipment type, make and model, and maximum power output; and b. A monthly log of hours of operation, fuel type, heating value, and sulfur content for fuel oil. A monthly calculation of the total hours operated in the previous 12 months; and c. Purchase orders, invoices, and other documents to substantiate information in the monthly log, and d. Copies of certificates and documents from the manufacturer related to certificates
	40. In accordance with 40 CFR §60.4245(a), owners and operators of all stationary SI ICE must keep records of the information in paragraphs (a)(1) through (4) of this section as follows: a. All notifications submitted to comply with this subpart and all documentation supporting any notification. b. Maintenance conducted on the engine. c. If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR Parts 90, 1048, 1054, and 1060, as applicable. d. If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to §60.4243(a)(2), documentation that the engine meets the emission standards.
Facility-Wide	41. In accordance with 310 CMR 7.00 Appendix C(10)(b), maintain records of all monitoring data and supporting information on-site for a period of at least five years from the date of the monitoring sample, measurement, report or initial operating permit application.
	42. In accordance with 310 CMR 7.12(3)(b), maintain copies of Source Registration and other information supplied to the MassDEP to comply with 310 CMR 7.12, which shall be retained by the facility owner or operator for five years from the date of submittal.
	43. 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 5 Key:

EU # = Emission Unit
CO2e = Carbon Dioxide Equivalent
CAM = Compliance Assurance Monitoring
CEMS = Continuous Emission Monitoring System
CFR = Code of Federal Regulations
HAP = Hazardous Air Pollutant
ICE = Internal Combustion Engine
EPA = Environmental Protection Agency
M-22s = EPA Method 22 Short Test
SI = Spark Ignition

Table 6a	
EU#	**Reporting Requirements[(1)]**
2	1. In accordance with 40 CFR 63.11225(a)(4), the Permittee shall submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in § 63.11196. The Notification of Compliance Status must include the information and certification(s) of compliance in paragraphs (a)(4)(i) through (vi) of 40 CFR 63.11225 and as specified below, as applicable, and signed by a responsible official. e. You must submit the information required in § 63.9(h)(2), except the information listed in § 63.9(h)(2)(i)(B), (D), (E), and (F). f. "This facility complies with the requirements in § 63.11214 to conduct an initial tune-up of the boiler." g. "This facility has had an energy assessment performed according to § 63.11214(c)." d. For units that install bag leak detection systems: "This facility complies with the requirements in § 63.11224(f)." e. For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit." f. The notification must be submitted electronically using the Compliance and Emissions Data Reporting Interface(CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (*www.epa.gov/cdx*). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the Administrator at the appropriate address listed in § 63.13.
	5. In accordance with 40 CFR 63.11225(b), the Permittee shall prepare, by March 1 of every other year, and submit to MassDEP and the USEPA upon request, a biennial compliance certification report containing the information specified in 40 CFR 63.11225(b)(1) and (2) and as specified below. You must submit the report by March 15 if you had any instance described by paragraph 40 CFR 63.11225(b)(3). a. Company name and address. b. Statement by a responsible official, with the official's name, title, phone number, email address, and signature, certifying the truth, accuracy and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart. Your notification must include the following certification(s) of compliance, as applicable, and signed by a responsible official: 1) "This facility complies with the requirements in 40 CFR 63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler." 2) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit." 3) "This facility complies with the requirement in 40 CFR 63.11214(d) and 63.11223(g) to minimize the boiler's time spent during startup and shutdown and to conduct startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available."

Table 6b	
EU#	**Reporting Requirements[(1)]**
5 6	6. In accordance with 1-P-94-022, submit a report to the MassDEP in writing no later than the 15th day of the following month if any limits in the provisions of 1-P-94-022 are exceeded. This report shall include the exact period the limit was exceeded, the suspected reason for exceeding the limit, and the action taken to correct the problem. The report will further address any date and period during which either continuous recorder is inoperable and the outage is not directly attributable to routine checks and maintenance.
	7. In accordance with 1-P-94-022 (amended May 9, 1996), 310 CMR 7.19(12)(e) and 310 CMR 7.00 Appendix C(10)(c), the Permittee shall submit to MassDEP by the 30th day of April, July, October, and January of each calendar year, a report which provides the following information for the preceding quarter: a. the date and time of commencement and completion of each period of oxygen concentration and temperature excursions outside of the established ranges; b. the date and time of commencement and completion of each period of excess emissions and the magnitude of the excess emission for each hour; c. identification of the suspected reason for the oxygen concentration and temperature excursions, excess emissions and any corrective action taken; d. the date and time that any CEMS stopped collecting valid data and when it started to collect valid data again, except for zero and span checks; and e. the nature and date of system repairs. Any items reported monthly per Table 6b, Condition #6 (above) do not need to be included in this quarterly report. In the event none of the above items have occurred such information shall be stated in the report.
9	8. In accordance with 1-P-91-009, report any malfunction of the unit and the associated air pollution equipment which results in abnormal emission to the Western Regional Office in Springfield by telephone no later than the next working day and subsequently in writing (within 48 hours). Written reports will include a description of what happened and what steps have been taken to prevent similar events in the future.
13 18-21 24 40-42 47 48	9. In accordance with 40 CFR 60.676(f), submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR 60.672, including reports of opacity observations made using Method 9 to demonstrate compliance.
	10. In accordance with 40 CFR 60.7, comply with all notification requirements of this subpart.
	11. The Permittee shall comply with all applicable reporting requirements contained in 40 CFR 60.676.
7-24, 26-31, 33, 37-43 47-52	12. In accordance with 310 CMR 7.00 Appendix C(10)(a), 40 CFR 64 (CAM) and the CAM Plan (07/14/2009), report to the MassDEP's Regional Bureau of Waste Prevention all High alarms and High-High alarms from the visible emissions monitoring system including any fabric filter bag failures. The report shall be submitted annually.
7-24, 26-31, 33-43 47-52	13. In accordance with Approval 1-P-04-028, 40 CFR 64 (CAM) and the CAM Plan (07/14/2009), if visible emissions are noted by the M-22s Test, report the visible emissions to the MassDEP. This report shall also contain the information required to be maintained in accordance with recordkeeping condition # 25 herein.
44	14. In accordance with 310 CMR 7.24(3)(e) and (f).,the Permittee shall comply with the applicable certification and notification requirements for the Stage I System as specified in 310 CMR 7.24(3)(e) and (f).
45	15. In accordance with 310 CMR 7.03(5) report to MassDEP any construction, substantial reconstruction or alteration, as described in 310 CMR 7.03, on the next required source registration.

Table 6c	
EU#	**Reporting Requirements(1)**
Facility-Wide	16. Submit a Source Registration/Emission Statement Form to MassDEP on an annual basis as required by 310 CMR 7.12.
	17. In accordance with 310 CMR 7.13(1) and 310 CMR 7.13(2), if and when the MassDEP has determined that stack testing is necessary to ascertain compliance with MassDEP's regulations or design approval provisions, cause such stack testing to be summarized, analyzed, and submitted to the MassDEP within such time frame as agreed to in the approved test protocol
	18. In accordance with 310 CMR 7.00 Appendix C(10)(a), submit to the MassDEP any record relevant to this operating permit or to the emissions of any air contaminant from the facility within 30 days of the request by the MassDEP.
	19. In accordance with 310 CMR 7.00: Appendix C(10)(c), the Permittee shall report a summary of all monitoring data and related supporting information to MassDEP at least every six months (January 30 and July 30 of each calendar year).
	20. Submit Annual Compliance report to MassDEP and EPA by January 30 of each year and as required by General Condition 10 of this Permit.
	21. In accordance with 310 CMR 7.71(5), the Permittee shall electronically submit and certify by April 15th of each year a greenhouse gas emissions report to MassDEP. (State Only Requirement).
	22. In accordance with 310 CMR 7.71(6), certify greenhouse gas emissions reports using a form provided by MassDEP or the registry. (State Only Requirement)
	23. In accordance with 310 CMR 7.71(7), by December 31st of the applicable year submit to MassDEP documentation of triennial verification of the greenhouse gas emissions report. (State Only Requirement)

Table 6 Key:

EU # = Emission Unit
CO2e = Carbon Dioxide Equivalent
CAM = Compliance Assurance Monitoring
CEMS = Continuous Emission Monitoring System
HAP = Hazardous Air Pollutant
CFR = Code of Federal Regulations
EPA = Environmental Protection Agency
M-22s = EPA Method 22 Short Test

Table 6 Notes:

(1) The annual Source Registration/Emission Statement report shall be submitted to the MassDEP office specified in the instructions. ***All other reports including both 6-month summary reports are to be submitted to the Western Regional Office.***

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: Reduction of Single Occupant Commuter Vehicle Use	Facility employs fewer than 250 people.

5. SPECIAL TERMS AND CONDITIONS

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

Table 8a

EU#	Special Terms and Conditions
2	1. In accordance with Approval #1-P-04-019, the Permittee shall ensure the boiler stack is configured to discharge the combustion gases vertically upwards.
	2. In accordance with Approval #1-P-04-019, the Permittee shall ensure the boiler stack shall not have rain protection of a type that restricts the vertical exhaust flow of the combustion gases as they are emitted to the ambient air. "Shanty caps", "egg beaters" and the like are prohibited.
	3. EU #2 is subject to the National Emission Standard for Hazardous Air Pollutants for Area Sources: Industrial, Commercial, and Institutional Boilers, 40 CFR Part 63.11193 through 63.11237 and shall comply with all applicable standards.
	4. In accordance with 40 CFR 63.11205, at all times the Permittee shall operate and maintain EU #2, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.
	5. EU# 2 is subject to the requirements of 40 CFR 63.1-10,12-16, Subpart A, "General Provisions" [as indicated in Table"8" to Subpart JJJJJJ of 40 CFR 63]. Compliance with all applicable provisions therein is required.
3 4 5 6	6. In accordance with Approvals 1-B-93-026 and 1-B-94-126, operate the reactor/carbonator such that there are no visible emissions, except water vapor, observed from the process stack.
13	7. In accordance with Approval 1-P-00-009, the Permittee shall operate the water sprays in the crusher building to the maximum extent possible, including during truck dumping, to minimize excessive visible emissions from the crushing operations inside the crusher building, except when prevented from doing so due to freezing ambient temperatures or when there is sufficient moisture already present in the crushed rock.
	8. In accordance with Approval 1-P-00-009, the Permittee shall not make any physical change to or change the method of operation of the conveyor belt exiting the 5000 ton Tee Pee Storage building, without first obtaining written approval from MassDEP in accordance with the requirements of 310 CMR 7.02.
13 18-21 24 33 40-42 47-48 50-52	9. EU #13, 18, 19, 20, 21, 24, 33, 40, 41, 42, 47, 48, 50, 51, and 52 are subject to the Standards of Performance for Nonmetallic Mineral Processing Plants, 40 CFR Part 60.670 through 60.676 and shall comply with all applicable standards.
18 19 20 31 42 43	10. In accordance with Approval 1-P-05-007, Approval 1-P-04-020, Approval 1-P-03-043, Approval 1-P-04-018, Approval 1-P-02-048 and Approval 1-P-02-020, the Permittee shall ensure that the stack top is a minimum of 10 feet above the top of the baghouse discharge, 10 feet above the nearest roofline, or of a height and location agreed to by MassDEP, in consideration of logistics, practicality and 40 CFR Part 60 Subpart OOO stack testing requirements.
	11. In accordance with Approval 1-P-05-007, Approval 1-P-04-020, Approval 1-P-03-043, Approval 1-P-04-018, Approval 1-P-02-048 and Approval 1-P-02-020, the Permittee shall ensure that the stack is configured to discharge the exhaust gases vertically upwards.
	12. In accordance with Approval 1-P-05-007, Approval 1-P-04-020, Approval 1-P-03-043, Approval 1-P-04-018, Approval 1-P-02-048 and Approval 1-P-02-020, the Permittee shall ensure that the stack shall not have rain protection of a type that restricts the vertical flow of the exhaust gases as they are emitted to the ambient air. "Shanty caps", "egg beaters" and the like are prohibited.

Table 8b	
EU#	**Special Terms and Conditions**
44	13. In accordance with 310 CMR 7.24(3)(b)1., no owner/operator of a motor vehicle fuel dispensing facility shall allow the transfer of motor vehicle fuel to a storage tank unless the vapors are collected by a Stage I system.
	14. In accordance with 310 CMR 7.24(3)(b)2.b., on or before seven years from January 2, 2015 any owner/operator of a motor vehicle fuel dispensing facility shall install: a. A Stage I CARB EVR System in accordance with any one of the Executive Orders listed in 310 CMR 7.24(3)(c)1.: Table 1, except in accordance with 310 CMR 7.24(3)(d)4; or b. A Stage I Component EVR System in accordance with the applicable Executive Orders listed in 310 CMR 7.24(3)(c)1.: Table 1 and manufacturer's guidance, except in accordance with 310 CMR 7.24(3)(d)4.
	15. In accordance with 310 CMR 7.24(3)(d)5.,upon determining during a visual inspection that a Stage I system component is incorrectly installed, non-functioning or broken, the Permittee shall: a. Immediately repair or replace the component; or b. If repairs or replacements cannot be made immediately, repair or replace the component within 30 days of the visual inspection date; or c. If a component cannot be repaired or replaced within 30 days of the visual inspection date, the transfer of motor vehicle fuel storage tank equipment with the incorrectly installed, non-functioning or broken component is prohibited until the component is repaired or replaced.
	16. In accordance with 310 CMR 7.24(3)(d)4.,any replacement of an incorrectly installed, non-functioning or broken Stage 1 components shall be with a CARB EVR component and shall be installed in accordance with the applicable Executive Orders and manufacturer's guidance, except than an existing non-EVR "slip-on" spill bucket may be repaired (including replaced) until seven years from January 2, 2015 and may be used after seven years from January 2, 2015 until it needs to be repaired or replaced.
	17. In accordance with 310 CMR 7.24(3)(d)5., every visual inspection shall be recorded on an inspection checklist that contains at a minimum the following information: a. The date each inspection was performed and the name and signature of the person who performed the inspection; b. Any Stage I system component determined to be incorrectly installed, non-functioning or broken; c. Whether any incorrectly installed, non-functioning or broken component was immediately repaired or replaced within 30 days, or whether the transfer of motor vehicle fuel into the motor vehicle fuel storage tank was prohibited until the component was repaired or replaced; and d. The date the incorrectly installed, non-functioning or broken component was repaired or replaced.
	18. In accordance with 310 CMR 7.24(3)(g)1., any Certification required by 310 CMR 7.24(3)(e) or Notification required by 310 CMR 7.24(3)(f) shall be signed by a Responsible Official regarding Stage I compliance, except in circumstances described in 310 CMR 7.24(3)(g)2.
	19. In accordance with 40 CFR 63.11115(a), the Permittee must, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the MassDEP and the USEPA which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

Table 8c	
EU#	**Special Terms and Conditions**
44	20. In accordance with 40 CFR 63.11116(a), the Permittee must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following: a. Minimize gasoline spills; b. Clean up spills as expeditiously as practicable; c. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use; d. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.
	21. In accordance with 40 CFR 63.11116(b), the Permittee must have records available within 24 hours of a request by MassDEP or the USEPA to document the gasoline throughput.
	22. In accordance with 40 CFR 63.11116(c), the Permittee must comply with the requirements of this subpart by the applicable dates specified in 40 CFR 63.11113.
	23. In accordance with 40 CFR 63.11116(d), portable gasoline containers that meet the requirements of 40 CFR part 59, subpart F, are considered acceptable for compliance with 40 CFR 63.11116 (a)(3).
	24. EU #44 is subject to the National Emission Standard for Hazardous Air Pollutants for Gasoline Dispensing Facilities, 40 CFR Part 63.11110 through 63.11132 and shall comply with all applicable standards.
	25. EU# 44 is subject to the requirements of 40 CFR 63.1-10,12-15, Subpart A, "General Provisions" [as indicated in Table"3" to Subpart CCCCCC of 40 CFR 63]. Compliance with all applicable provisions therein is required.
45	26. In accordance with 310 CMR 7.18(8)(e)1. through 3, operate any solvent metal degreaser using procedures which minimize evaporative emissions and prohibit spills from the use of said degreaser. Such procedures include but are not limited to: a. notification to operators of the performance requirements that must be practiced in the operation of the degreaser, including the permanent and conspicuous posting of labels in the vicinity of the degreaser detailing performance requirements; and b. storage of waste degreasing solvent in closed containers, and disposal or transfer of waste degreasing solvent to another party, in a manner such that less than 20% of the waste degreasing solvent by weight can evaporate in to the atmosphere; and c. where applicable, supplying a degreasing solvent spray which is a continuous fluid stream (not a fine, atomized or shower type spray) at a pressure which does not exceed ten pounds per square inch as measured at the pump outlet, and use any such spray within the confines of the degreaser.
	27. In accordance with 310 CMR 7.18(8)(f), maintain instantaneous and continuous compliance at all times.
	28. In accordance with 310 CMR 7.18(8)(d), any aqueous cleaner in which all the following conditions are satisfied is exempt from the requirements of 310 CMR 7.18(8)(a)(b), and (c): a. All organic material in the cleaning fluid is water soluble; and b. The cleaning fluid contains no more than 5% by weight organic material, excluding soaps.

Table 8d	
EU#	**Special Terms and Conditions**
7-24, 26-31, 33-43 47, 48	29. In accordance with Approval 1-P-04-028, 40 CFR 64 (CAM) and the CAM Plan (07/14/2009) ensure that the visible particulate emission detection and baghouse control equipment (B-PAC 100, B-PAC 1000, and B-PAC PC collectively referred to as "B-PAC") is operational at all times that the baghouse that the unit controls is being utilized and the B-PAC monitoring system is functional. The B-PAC monitoring system shall satisfy the requirements of performing Method 22 visual determinations as required by previously issued approvals.
	30. In accordance with Approval 1-P-04-028, 40 CFR 64 (CAM) and the CAM Plan (07/14/2009), if visible emissions are noted by the M-22s Test, implement the corrective procedures specified in the Standard Operation and Maintenance procedure (SOMP) submitted.
	31. In accordance with Approval 1-P-04-028, 40 CFR 64 (CAM) and the CAM Plan (07/14/2009) if the visible emissions are not eliminated within 24 hours of their being observed, the Permittee must begin shutdown procedures (in accordance with the manufacturer's recommendations for an expeditious and safe shutdown) for the process responsible for the visible emissions until repairs are completed and visible emissions return to the baseline reading.
7-24, 26-31, 37-43, 47, 48	32. EU# 7 through 24, EU #26 through 31, EU# 37 through 43, EU# 47 and EU# 48 are subject to Compliance Assurance Monitoring, 40 CFR Part 64.1 through 64.10, and shall comply with all applicable standards.
	33. In accordance with 40 CFR 64 (CAM) and the CAM Plan (07/14/2009) , the Permittee shall maintain an adequate spare parts inventory for the B-PAC monitoring system and the fabric filter dust collector bags on-site at the facility.
49 50 51 52 33	34. In accordance with Approval WE-18-004 and the best available control technology provision of 310 CMR 7.02(8)(a)2., the PCC material processed by the atritor dryer/pulverizer, air classifier mill, packaging system, and all storage silos shall be transferred by a fully enclosed pneumatic conveying system.
	35. In accordance with Approval WE-18-004 and the best available control technology provision of 310 CMR 7.02(8)(a)2., the Permittee shall employ all reasonable good housekeeping practices to minimize fugitive particulate matter emissions from EU's #49 through #52 and EU #33.
	36. In accordance with Approval WE-18-004, EU's #49 through#52 and EU #33 are subject to Compliance Assurance Monitoring, 40 CFR Part 64.1 through 64.10, and shall comply with all applicable standards.
	37. In accordance with Approval WE-18-004, 40 CFR 64 (CAM) and the CAM Plan (07/14/2009), the Permittee shall maintain an adequate spare parts inventory for the FilterSense® monitoring system and the fabric filter dust collector bags on-site at the facility.
52 33	38. In accordance with 40 CFR §60.672(f), any baghouse that controls emissions from an individual, enclosed storage bin is exempt from the applicable stack PM concentration limit (and associated performance testing) in Table 2 to Subpart OOO of Part 60.
53	39. In accordance with 40 CFR §60.4243(d), in order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (d)(1) through (3) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (d)(1) through (3) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.
	40. In accordance with 40 CFR §60.4243(d)(2)(i), emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. 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 ICE beyond 100 hours per calendar year.

Table 8e	
EU#	**Special Terms and Conditions**
53	41. In accordance with 40 CFR §60.4243(d)(3)(i), the 50 hours of operation in non-emergency situations can only be used to supply power as a part of a financial arrangement with another entity if all of the following conditions are met: a. The engine is dispatched by the local balancing authority or local transmission and distribution system operator. b. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region. c. The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines. d. The power is provided only to the facility itself or to support the local transmission and distribution system. e. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.
	42. In accordance with 40 CFR §60.4243(e) stationary natural gas fired engines may operate using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, a performance test is required to demonstrate compliance with the emission standards of §60.4233.
	43. In accordance with 310 CMR 7.26(42)(c)3., engines, turbines and associated equipment shall be constructed, located, operated and maintained in a manner to comply with the requirements of 310 CMR 7.10: Noise. **[State Only]**
	44. In accordance with 310 CMR 7.26(42)(d)5., emergency engines shall comply with all the requirements of 310 CMR 7.06(1)(a) and (b).
	45. In accordance with 310 CMR 7.26(42)(e)1., a one-time Environmental Results Program Certification shall be made to the department within 60 days of commencement of operation; annual certification is not required. Certification shall include a statement from the supplier that the installed engine is capable of complying with the emission limitations for the first three years of operation.

Table 8 Key:

EU # = Emission Unit
CAM = Compliance Assurance Monitoring
CARB = California Air Resources Board
CFR = Code of Federal Regulations
CMR = Code of Massachusetts Regulations
EPA = Environmental Protection Agency
EVR = Enhanced Vapor Recovery
ICE = Internal Combustion Engine
PCC = Precipitated Calcium Carbonate
PSIA = Pounds per Square Inch Absolute
PM = Particulate Matter
NERC = North American Electric Reliability Corp.
% = Percent

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 Permittee did not request intra-facility emissions trading in its Operating Permit application.

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 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. 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:

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. 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 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. EMERGENCY CONDITIONS

The Permittee shall be shielded from enforcement action brought for noncompliance with technology based[1] emission limitations specified in this Permit as a result of an emergency[2]. 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.

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.

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[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.

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/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, 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. 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 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.

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
Department of Environmental Protection
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.