

## **Enclosure 1**

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This enclosure requests information about the cement production facility, facility equipment and processes regulated under 40 CFR part 63 subpart LLL, facility processing rates and air pollution control devices used, and information on control device performance.

### **Portland Cement 114 Request Form**

**National Emission Standards for Hazardous Air Pollutants (NESHAP) from the Portland Cement Manufacturing Industry (40 CFR part 63, subpart LLL)**

## Portland Cement 114 Request Form

National Emission Standards for Hazardous Air Pollutants (NESHAP) from the Portland Cement Manufacturing Industry (40 CFR part 63, subpart LLL)

### General Instructions

1. Please complete one copy of this workbook for each portland cement manufacturing plant owned or operated by your company.
2. If any of the data requested is considered confidential business information (CBI), please prepare an additional version of this work book containing only non-confidential information.
3. Please direct any questions to Brian Storey at (919) 541-1103 or [storey.brian@epa.gov](mailto:storey.brian@epa.gov)

This survey contains the following tabs after the cover sheet:

Instructions (this tab). Instructions for completing this survey.

Terms. Definitions and acronyms of certain technical terms that are mentioned throughout this survey.

Part A (01-14). Facility Information

Part B (01). Facility Equipment Regulated under Subpart LLL

Part C (01-04). Processing Rates and Controls Used for Kilns Regulated under Subpart LLL

Part D (01-03). Detailed Control Device and Emission Release Information for Sources Regulated under Subpart LLL

To submit your survey, the following instructions are referenced from the Section 114 transmittal letter.

**All required non-confidential business information (non-CBI) must be sent electronically to:**

Brian Storey  
Office of Air Quality Planning and Standards  
Sector Policies and Programs Division  
Research Triangle Park, NC 27711  
[storey.brian@epa.gov](mailto:storey.brian@epa.gov)

**For confidential business information (CBI)**, remove those portions from your response and submit them separately to the appropriate email address below. For any confidential information, the CBI may be sent in either of the following two manners:

1. **Preferred method to receive CBI:** transmitted to OAQPS CBI Office electronically using email attachments, File Transfer Protocol (FTP), or other online file sharing services (e.g., Dropbox, OneDrive, Google Drive) using the email address, [oaqpscbi@epa.gov](mailto:oaqpscbi@epa.gov), and should include clear CBI markings. If assistance is needed with submitting large electronic files, please email [oaqpscbi@epa.gov](mailto:oaqpscbi@epa.gov) to request a file transfer link.

2. Sent to the OAQPS Document Control Officer through a postal service (U.S. Mail, United Parcel Service (UPS), Federal Express (FedEx)). CBI material should be double wrapped and clearly marked. CBI markings should not show through the outer envelope.

Please use the street address below for U.S. Postal Service Express Mail, registered mail, or private courier for submitting your CBI:

Ms. Tiffany Purifoy, OAQPS DCO  
ATTN: Portland Cement NESHAP  
U.S. Environmental Protection Agency  
Mail Code C404-02  
109 T.W. Alexander Drive  
Research Triangle Park, NC 27711

Please use the street address below for commercial package carriers, such as FedEx and UPS for submitting your CBI:

Ms. Tiffany Purifoy, OAQPS DCO  
ATTN: Portland Cement NESHAP  
U.S. Environmental Protection Agency  
Mail Code C404-02  
109 T.W. Alexander Drive  
Research Triangle Park, NC 27711

## Portland Cement 114 Request Form

### National Emission Standards for Hazardous Air Pollutants (NESHAP) from the Portland Cement Manufacturing Industry (40 CFR part 63, subpart LLL)

Please copy this Microsoft Excel workbook as needed, and complete one file for each Portland Cement Manufacturing facility operated by your company.

Definitions	
Term	Definition
Alkali bypass	A duct between the feed end of the kiln and the preheater tower through which a portion of the kiln exit gas stream is withdrawn and quickly cooled by air or water to avoid excessive buildup of alkali, chloride and/or sulfur on the raw feed. This may also be referred to as the “kiln exhaust gas bypass”.
Bypass stack	The stack that vents exhaust gases to the atmosphere from the bypass control device.
Clinker cooler	Equipment into which clinker product leaving the kiln is placed to be cooled by air supplied by a forced draft or natural draft supply system.
Conveyor transfer point	A point where any material including but not limited to feed material, fuel, clinker or product, is transferred to or from a conveying system, or between separate parts of a conveying system.
Finish mill	A roll crusher, ball and tube mill, or other size reduction equipment used to grind clinker to a fine powder. Gypsum and other materials may be added to and blended with clinker in a finish mill. The finish mill also includes the air separator associated with the finish mill.
In-line coal mills	A coal mill using kiln exhaust gases in their process. A coal mill with a heat source other than the kiln or a coal mill using exhaust gases from the clinker cooler is not an in-line coal mill.
Kiln	A device, including any associated preheater or precalciner devices, inline raw mills, inline coal mills or alkali bypasses that produces clinker by heating limestone and other materials for subsequent production of portland cement. Because the inline raw mill and inline coal mill are considered an integral part of the kiln, for purposes of determining the appropriate emissions limit, the term kiln also applies to the exhaust of the inline raw mill and the inline coal mill.
Monovent	An exhaust configuration of a building or emission control device (e.g., positive-pressure fabric filter) that extends the length of the structure and has a width very small in relation to its length (i.e., length to width ratio is typically greater than 5:1). The exhaust may be an open vent with or without a roof, louvered vents, or a combination of such features.
Open clinker pile	A clinker storage pile on the ground for more than three days that is not completely enclosed in a building or structure.
Raw material dryer	An impact dryer, drum dryer, paddle-equipped rapid dryer, air separator, or other equipment used to reduce the moisture content of feed or other materials.
Raw mill	A ball and tube mill, vertical roller mill or other size reduction equipment, that is not part of an inline kiln/raw mill, used to grind feed to the appropriate size. Moisture may be added or removed from the feed during the grinding operation. If the raw mill is used to remove moisture from feed materials, it is also, by definition, a raw material dryer. The raw mill also includes the air separator associated with the raw mill.
Sorbent	Activated carbon, lime, or any other type of material injected into kiln exhaust for the purposes of capturing and removing any hazardous air pollutant.

Acronyms	
Acronym	Term
APCD	add-on air pollution control device

CBI	Confidential Business Information
ID	identifier
NAICS	North American Industrial Classification System
OPC	ordinary portland cement
PLC	portland-limestone cement
SCFM	standard cubic feet per minute

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 National Emission Standards for Hazardous Air Pollutants (NESHAP) from the Portland Cement Manufacturing Industry (40 CFR part 63, subpart LLL)  
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Part A. Facility Information

A-01. Name and address of legal OWNER of the facility (if more than one owner, provide the name, address, and percent ownership for each owner using the additional columns to right):

Name	Ash Grove Cement Company		
Address	11011 Cody Street, Suite 300		
City	Overland Park		
State	KS		
Zip	66210		
Percent Ownership	100%		

A-02. Name and address of legal OPERATOR of the facility, if different than the legal OWNER:

Name	
Address	
City	
State	
Zip	

A-03. Name and complete street address of facility (physical location):

Facility Name	Ash Grove Cement Company
Address	900 Gifco Road
City	Midlothian
State	Texas
Zip	76065
County	Ellis

A-04. Provide mailing address of the facility if different than physical location:

Address	
City	
State	
Zip	
County	

A-05. Facility contact able to answer technical questions about the completed survey:

Name (first name, last name)	Francisco Pinto
Title	Manager of Community & Environmental Affairs
Telephone number and extension	972 723 7231
E-mail	francisco.pinto@ashgrove.com

A-06. What is the facility size classification for hazardous air pollutant (HAP) emissions? (Enter "Yes" or "No")

EPA Major Source of Hazardous Air Pollutants (HAP)	No
EPA Area source (based on potential to emit) of HAP	Yes
EPA Area source (Synthetic Minor) of HAP	No

A-07. Facility NAICS codes. Note: The primary NAICS code represents the line of business that generates the most income for the facility.

Primary NAICS code	327310
Other facility NAICS codes	

**A-08. Company Size** (Enter "Yes" for all that apply) Note: Approximate number of all employees (worldwide) of the business enterprise that owns this facility, including where applicable, the parent company and all subsidiaries, branches, and unrelated establishments owned by the parent company.

< 1,000 employees	
≥ 1,000 employees	Yes

**A-09 Parent Company Annual Revenue**  
Please provide the estimated annual revenue (\$) generated by the parent company (identified in A-01) in FY2021.

FY2021 Annual Revenue of Parent Company	N/A
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**A-10. Federal and State rule/permit coverage.** (Enter "Yes" for all that apply to this facility).

Subpart LLL (Portland Cement Manufacturing)	Yes	40 CFR 63 Subpart LLL, 30 TAC Chapter 113
Other NESHAP (SPECIFY rule name and subpart)	Yes	40 CFR 63 Subpart ZZZZ,, 30 TAC Chapter 113
Other (SPECIFY rule name and subpart)		
<b>New Source Performance Standards (NSPS):</b>		
40 CFR 60 subpart F (Portland Cement Plants)	Yes	
Other NSPS (SPECIFY rule name and subpart)	Yes	40 CFR 60 Subpart Y - Coal Preparation Plants
Other NSPS (SPECIFY rule name and subpart)	Yes	40 CFR 60 Subpart OOO - Nonmetallic Mineral Processing Plants
Other NSPS (SPECIFY rule name and subpart)	Yes	40 CFR 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
<b>Title V:</b>		
(SPECIFY rule that led to title V permit requirement)	Yes	40 CFR Part 70, Major Source Requirements, 30 TAC Chapter 122
<b>State Air Toxics:</b>		
(SPECIFY rule name and subpart)	No	30 TAC Chapter 116, NSR - Health Effects Modeling during construction permitting
(SPECIFY rule name and subpart)		No specific emission unit is subject to an air toxics requirement
Other: (SPECIFY emission unit and rule)		
Other: (SPECIFY emission unit and rule)		

**A-11. Normal Facility Production Hours**

Hours/day:	24
Shifts/day:	3
Days/week:	7
Weeks/year:	52

**A-12. Clinker Production.** Amount of clinker produced the most recent year of normal operation. Total capacity of clinker production.

Tons of clinker produced in last normal operating year:	
Maximum tons of clinker able to be produced in one year (plant capacity):	949,000

**A-13. Please provide a copy of a schematic or process flow diagram of the plant portland cement manufacturing operations. Include identifying labels for equipment to be used for the remainder of this questionnaire.**

Schematic or Process Flow Diagram File Name*	Ash Grove Midlothian - Exhibit A PFDs
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\*Please include Unit ID No., APCD ID No., Controlled Emissions Point ID No., and Un-controlled Emissions Point ID No. where applicable in the Schematic or Process Flow Diagram (PFD). It is assumed the PFD will be submitted electronically, as a separate file.

**A-14. Please provide all of the pertinent information listed below. Please provide electronic copies, if available, and indicate items provided below.** (Enter "Yes" for all that apply).

Title V Permit or State Air Operating Permit*	Yes	Ash Grove Midlothian - Exhibit B Title V Permit
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\*If the permit is available online, please provide the URL for the file location.

**National Emission Standards for Hazardous Air Pollutants (NESHAP) from the Portland Cement Manufacturing Industry (40 CFR part 63, subpart LLL)**  
**Please copy this Microsoft Excel workbook as needed, and complete one file for each Portland Cement Manufacturing facility operated by your company.**

Please enter information for units subject to Subpart LLL, excluding any fugitive dust sources, material handling/conveying sources of emissions, or the emissions controls associated with these sources. See "Terms" Tab for an explanation of terms.  
Please insert Rows as needed.

[illegible]




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Please copy this Microsoft Excel workbook as needed, and complete one file for each Portland Cement Manufacturing facility operated by your company.

Part C. Processing Rates and Controls Used for Kilns Regulated under Subpart LLL

Please provide information below for all kilns/clinker coolers at your facility: provide information for 2021 if available, or other year (please specify):

Please insert Rows as needed.

Please use the Notes/Comments column for any additional clarification, or APCDs if sufficient columns are not available. Additionally, Tab E provides space for additional comments.

Calendar Year (CY) 2021

C-01. For Kilns/Clinker Cooler With Common Exhaust

Unit ID No. (Use Same ID as Provided in Section B-01, Column A)	Maximum Capacity of Unit (tons/yr)	Actual Production of Unit (tons/yr)	Actual Unit Operating Hours (should be no more than 8,760) (hr/yr)	Primary Fuel	Additional Fuels	Process Modifications* (list all applicable)	APCD Control Device Type No. 1	APCD Control Device ID No. 1	APCD Control Device Type No. 2 (where applicable)	APCD Control Device ID No. 2 (where applicable)	APCD Control Device Type No. 3 (where applicable)	APCD Control Device ID No. 3 (where applicable)	APCD Control Device Type No. 4 (where applicable)	APCD Control Device ID No. 4 (where applicable)	Controlled Emissions Point ID No. (Details provided in Section D)	Un-controlled Emissions Point ID No. (Details provided in Section D)	Additional Notes/Comments

\* For example, dust shutting, PLC, overfire air, etc. For PLC, indicate what percentage of production is PLC vs. OPC. Use Part E tab of this workbook to provide the information if additional space is needed.

C-01.1 Common Exhaust Kilns: Additional Fuels List

Unit ID No. (From C-01)	Additional Fuels

C-02. For Each Kiln With Separate Exhaust

Unit ID No. (Use Same ID as Provided in Section B-01, Column A)	Maximum Capacity of Unit (tons/yr)	Actual Production of Unit (tons/yr)	Actual Unit Operating Hours (should be no more than 8,760) (hr/yr)	Primary Fuel	Additional Fuels	Process Modifications* (list all applicable)	APCD Control Device Type No. 1	APCD Control Device ID No. 1	APCD Control Device Type No. 2 (where applicable)	APCD Control Device ID No. 2 (where applicable)	APCD Control Device Type No. 3 (where applicable)	APCD Control Device ID No. 3 (where applicable)	APCD Control Device Type No. 4 (where applicable)	APCD Control Device ID No. 4 (where applicable)	Controlled Emissions Point ID No. (Details provided in Section D)	Un-controlled Emissions Point ID No. (Details provided in Section D)	Additional Notes/Comments
443.5K1	949,000			Natural Gas	Coal, coke, new or used oil, wood chips, shredded railroad ties, and TDF (calciner)	N/A	Baghouse	443.BF1	Carbon injection	443.BN4	SNCR	SNCR-RIK3			Main Kiln Stack		Reconstructed Kiln 3 System

\* For example, dust shutting, PLC, overfire air, etc. For PLC, indicate what percentage of production is PLC vs. OPC. Use Part E tab of this workbook to provide the information if additional space is needed.

C-02.1 Separate Exhaust Kilns: Additional Fuels List

Unit ID No. (From C-02)	Additional Fuels

C-03. For Each Idled Kiln, Not in Operation

Unit ID No. (Use Same ID as Provided in Section B-01, Column A)	Maximum Capacity of Unit (tons/yr)	Actual Production of Unit (tons/yr)	Current Idled Period (days/months/years)	Primary Fuel	Additional Fuels	Process Modifications* (list all applicable)	APCD Control Device Type No. 1	APCD Control Device ID No. 1	APCD Control Device Type No. 2 (where applicable)	APCD Control Device ID No. 2 (where applicable)	APCD Control Device Type No. 3 (where applicable)	APCD Control Device ID No. 3 (where applicable)	APCD Control Device Type No. 4 (where applicable)	APCD Control Device ID No. 4 (where applicable)	Controlled Emissions Point ID No. (Details provided in Section D)	Un-controlled Emissions Point ID No. (Details provided in Section D)	Additional Notes/Comments
					Use the space in C-03.1 to list any additional fuels, permitted or otherwise, burned by the Unit identified in this table.												

\* For example, dust shutting, PLC, overfire air, etc. For PLC, indicate what percentage of production is PLC vs. OPC. Use Part E tab of this workbook to provide the information if additional space is needed.

C-03.1 Separate Exhaust Kilns: Additional Fuels List

Unit ID No. (From C-03)	Additional Fuels

C-04. For Each Clinker Cooler with Separate Exhaust

Unit ID No. (Use Same ID as Provided in Section B-01, Column A)	Maximum Capacity of Unit (tons/yr)	Actual Production of Unit (tons/yr)	Actual Unit Operating Hours (should be no more than 8,760) (hr/yr)	APCD Control Device Type No. 1	APCD Control Device ID No. 1	APCD Control Device Type No. 2 (where applicable)	APCD Control Device ID No. 2 (where applicable)	APCD Control Device Type No. 3 (where applicable)	APCD Control Device ID No. 3 (where applicable)	APCD Control Device Type No. 4 (where applicable)	APCD Control Device ID No. 4 (where applicable)	Controlled Emissions Point ID No. (Details provided in Section D)	Un-controlled Emissions Point ID No. (Details provided in Section D)	Additional Notes/Comments

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**Part D. Detailed Control Device and Emission Release Information for Sources Regulated under Subpart LLL**

Please provide information below for all air pollution control devices at your facility; provide information for 2021 if available, or other year (please specify):

CY 2021

Please insert Rows as needed.

**D-01. Add-on air pollution control devices (APCD)**

APCD ID No. (This should match the ID's provided in Section C)	Device Type*	Pollutant Controlled (separate pollutants with comma)	Capture Efficiency, if known (percent)	Control Device Efficiency, if known (percent)	Methods Used for Determining Capture & Control Efficiencies**	What process units are vented through this point?  Unit ID No. (Use Same IDs as Provided in Section B-01 (column A), and Section C) (separate IDs with comma)
443.BF1	Baghouse	PM-FIL, PM10-FIL, PM2.5-FIL	100		b	446.KD1
443.BN4	Carbon injection	Hg			N/A	446.KD1
SNCR-RK3	SNCR	NOx			N/A	446.KD1

\* For example, fabric filter, wet scrubber etc.

\*\* Control & Capture Efficiency; a = Testing (specify method); b = Manufacturer's Specifications; c = Engineering Estimate

Please provide any additional information concerning the Control Devices identified in D-01, as needed, using the Part E tab of this workbook.

**D-02. For each exhaust point/stack with a control device, please provide the following information, if known.**

Controlled Emissions Point ID No. (This should match the ID's provided in Section C)	What control devices are vented at this point? (APCD ID No. from Section D-01)	Latitude*	Longitude*	Flow Rate (SCFM)
443.SK1	443.BF1, SNCR-RK3, 443.BN4	323113.460000	970019.050000	298590

11/01/2021 Stack Test

\* Longitude and Latitude should be specified to 6 decimal places. If coordinates are not known, please provide a scaled site diagram, with a latitude/longitude reference point, indicating stack locations.

**D-03. For each exhaust point/stack not associated with a control device, please provide the following information, if known.**

<b>Un-controlled Emissions Point ID No.</b> (This should match the ID's provided in Section C)	<b>What process units are vented though this point? Unit ID No.</b> (Use Same IDs as Provided in Section B-01 (column A), and Section C) (separate IDs with comma)	<b>Latitude*</b>	<b>Longitude*</b>	<b>Flow Rate, if known (SCFM)</b>

\* Longitude and Latitude should be specified to 6 decimal places. If coordinates are not known, please provide a scaled site diagram, with a latitude/longitude reference point, indicating stack locations.

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### Part E. Additional Information

E-01. Provide any additional information in the space below as needed. Please identify the associated part of the workbook (e.g., C-01), as applicable.

Identify Questionnaire Part Associated with the Information Provided (e.g., C-01)	Identify Information Being Requested (e.g., "Process Modification")	Additional Information

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Validation

This sheets provides the names and values that should be used when filling out the sheet.

POLLUTANT CODE	POLLUTANT CODE DESC	HAP CATEGORY NAME1
<b>Particulate Matter</b>		
PM10-FIL	Primary PM10, Filterable Portion Only	
PM10-RH	Primary PM10 (Includes Filterables + Condensibles)	
PM25-FIL	Primary PM2.5, Filterable Portion Only	
PM25-RH	Primary PM2.5 (includes Filterables + Condensibles)	
PM-COM	Primary PM Condensible Portion Only (All Less Than 1 Micron)	
PM-FIL	Primary PM, Filterable Portion Only	
PM-RH	Primary PM (includes Filterables + Condensibles)	
<b>Criteria Air Pollutants and VOC</b>		
CO	Carbon Monoxide	
195	Lead & Compounds	Lead Compounds
NOX	Nitrogen Oxides	
SO2	Sulfur Dioxide	
VOC	Volatile Organic Compounds	
<b>HAP Metals</b>		
7440360	Antimony	Antimony Compounds
7440382	Arsenic	Arsenic Compounds
7440417	Beryllium	Beryllium Compounds
7440439	Cadmium	Cadmium Compounds
7440473	Chromium (Total)	Chromium Compounds
06	Chromium (III)	Chromium Compounds
54	Chromium (VI)	Chromium Compounds
7440484	Cobalt	Cobalt Compounds
7439921	Lead	Lead Compounds
7439955	Manganese	Manganese Compounds
7440020	Nickel	Nickel Compounds
7782452	Selenium	Selenium Compounds
7439976	Mercury (Total)	Mercury Compounds
0	Elemental Gaseous Mercury	Mercury Compounds
1	Gaseous Divalent Mercury	Mercury Compounds
3	Particulate Divalent Mercury	Mercury Compounds
<b>Dioxin Furans</b>		
600	2,3,7,8-TCDD TEQ (Total)	Dioxins/Furans as 2,3,7,8-TCDD TEQs
67542394	1,2,3,4,6,7,8-Heptachlorodibenzofuran	Dioxins/Furans as 2,3,7,8-TCDD TEQs
15823469	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	Dioxins/Furans as 2,3,7,8-TCDD TEQs
55673897	1,2,3,4,7,8,9-Heptachlorodibenzofuran	Dioxins/Furans as 2,3,7,8-TCDD TEQs
70648269	1,2,3,4,7,8-Hexachlorodibenzofuran	Dioxins/Furans as 2,3,7,8-TCDD TEQs
39227286	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	Dioxins/Furans as 2,3,7,8-TCDD TEQs
57117449	1,2,3,4,7,8-Hexachlorodibenzofuran	Dioxins/Furans as 2,3,7,8-TCDD TEQs
57633857	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	Dioxins/Furans as 2,3,7,8-TCDD TEQs
72918219	1,2,3,7,8,9-Hexachlorodibenzofuran	Dioxins/Furans as 2,3,7,8-TCDD TEQs
19408743	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	Dioxins/Furans as 2,3,7,8-TCDD TEQs
57117456	1,2,3,7,8-Pentachlorodibenzofuran	Dioxins/Furans as 2,3,7,8-TCDD TEQs
46232764	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	Dioxins/Furans as 2,3,7,8-TCDD TEQs
60851345	2,3,4,6,7,8-Hexachlorodibenzofuran	Dioxins/Furans as 2,3,7,8-TCDD TEQs
57117314	2,3,4,7,8-Pentachlorodibenzofuran	Dioxins/Furans as 2,3,7,8-TCDD TEQs
51207319	2,3,7,8-Tetrachlorodibenzofuran	Dioxins/Furans as 2,3,7,8-TCDD TEQs
17460156	2,3,7,8-Tetrachlorodibenzo-p-Dioxin	Dioxins/Furans as 2,3,7,8-TCDD TEQs
39510100	Octachlorodibenzofuran	Dioxins/Furans as 2,3,7,8-TCDD TEQs
32688879	Octachlorodibenzo-p-Dioxin	Dioxins/Furans as 2,3,7,8-TCDD TEQs
<b>Organic HAP and Acid Gases.</b>		
61894119	1,5,35-2,3-Epoxybutane	
79345	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane
79005	1,1,2-Trichloroethane	1,1,2-Trichloroethane
57147	1,1-Dimethyl Hydrazine	1,1-Dimethylhydrazine
5124301	1,1-Methylene bis(4-isocyanatocyclohexane)	
26447405	1,1'-Methylenediphenyl Diisocyanate	
6889	1,2,3,4,5,6-Hexachlorocyclohexane	Including Lindane
120821	1,2,4-Trichlorobenzene	1,2,4-Trichlorobenzene
95636	1,2,4-Trimethylbenzene	
590192	1,2-Butadiene	
96128	1,2-Dibromo-3-Chloropropane	1,2-Dibromo-3-Chloropropane
540488	1,2-Dichloroethylene	
540590	1,2-Dichloroethylene	
110714	1,2-Dimethoxyethane	Glycol Ethers
122667	1,2-Diphenylhydrazine	1,2-Diphenylhydrazine
108887	1,2-Epoxybutane	1,2-Epoxybutane
75558	1,2-Propyleneimine	1,2-Propyleneimine (2-Methylaziridine)
646060	1,3-Dioxolane	Glycol Ethers
108678	1,3,5-Trimethylbenzene	
106090	1,3-Butadiene	1,3-Butadiene
542756	1,3-Dichloropropane	1,3-Dichloropropane
103067	1,3-Diphenylguanidine	
2004708	1,3-Pentadiene, (E)-	
1574410	1,3-Pentadiene, (Z)-	
108452	1,3-Phenylenediamine	
1120714	1,3-Propanesultone	1,3-Propane Sultone
106467	1,4-Dichlorobenzene	1,4-Dichlorobenzene
591935	1,4-Pentadiene	
42367648	1,6-Dimethylpyrene	Polycyclic Organic Matter
42367659	1,8-Dimethylpyrene	Polycyclic Organic Matter
2422799	12-Methylbenz(a)Anthracene	Polycyclic Organic Matter
71363	1-Butanol	
106989	1-Butene	
150298	1-Chloro-2,3-Epoxypropane	Epichlorohydrin (1-Chloro-2,3-Epoxypropane)
98566	1-Chloro-4-(Trifluoromethyl)-Benzene	
23436193	1-Isobutoxy-2-Propanol	Glycol Ethers
90120	1-Methylnaphthalene	Polycyclic Organic Matter
632699	1-Methylphenanthrene	Polycyclic Organic Matter
2381217	1-Methylpyrene	Polycyclic Organic Matter
5522430	1-Nitropyrene	Polycyclic Organic Matter
124118	1-Norbornene	
71238	1-Propanol	
1568013	1-Propoxy-2-propanol	
27310210	2-(2,4-Hexadienyl)oxyEthanol	Glycol Ethers
112254	2-(Hexyloxy)Ethanol	Glycol Ethers
540841	2,2,4-Trimethylpentane	2,2,4-Trimethylpentane

SCC Code	Units	SCC Level One	SCC Level Two	SCC Level Three	SCC Level Four	Description	Short Name	Category	Fuel	EI Sector	Last Inventory Year Valid	Map To	Usage Notes
30500606	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Kilns	CEMENT	Cement			Industrial			
30500607	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Raw Material Unloading	CEMENT	Cement			Industrial			
30500608	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Raw Material Piles	CEMENT	Cement			Industrial			
30500609	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Primary Crushing	CEMENT	Cement			Industrial			
30500610	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Secondary Crushing	CEMENT	Cement			Industrial			
30500611	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Screening	MINERAL	Cement			Industrial			
30500612	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Raw Material Transfer	CEMENT	Cement			Industrial			
30500613	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Raw Material Grinding and Drying	MINERAL	Cement			Industrial			
30500614	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Clinker Cooler	MINERAL	Cement			Industrial			
30500615	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Clinker Piles	MINERAL	Cement			Industrial			
30500616	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Clinker Transfer	MINERAL	Cement			Industrial			
30500617	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Clinker Grinding	MINERAL	Cement			Industrial			
30500618	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Cement Silos	MINERAL	Cement			Industrial			
30500619	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Cement Load Out	CEMENT	Cement			Industrial			
30500620	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Pneumatic Coal Kiln Feed Units	Cement	Cement			Industrial			
30500621	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Preheater Kiln	Cement	Cement			Industrial			
30500622	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Preheater Kiln	Cement	Cement			Industrial			
30500623	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Preheater/Preclinker Kiln	Cement	Cement			Industrial			
30500624	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Raw Mill Feed Belt	Cement	Cement			Industrial			
30500625	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Raw Mill Weigh Hopper	Cement	Cement			Industrial			
30500626	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Raw Mill Air Separator	Cement	Cement			Industrial			
30500627	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Finish Grinding Mill Feed Belt	Cement	Cement			Industrial			
30500628	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Finish Grinding Mill Weigh Hopper	Cement	Cement			Industrial			
30500629	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Finish Grinding Mill Air Separator	Cement	Cement			Industrial			
30500699	TON	Industrial	Mineral	Cement Manufacturing (Dry Process)	Other Not Classified	MINERAL	Cement			Industrial			
30500706	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Kilns	CEMENT MFG	Cement			Industrial			
30500707	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Raw Material Unloading	CEMENT MFG	Cement			Industrial			
30500708	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Raw Material Piles	CEMENT MFG	Cement			Industrial			
30500709	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Primary Crushing	CEMENT MFG	Cement			Industrial			
30500710	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Secondary Crushing	CEMENT MFG	Cement			Industrial			
30500711	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Screening	MINERAL	Cement			Industrial			
30500712	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Raw Material Transfer	CEMENT MFG	Cement			Industrial			
30500714	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Clinker Cooler	MINERAL	Cement			Industrial			
30500715	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Clinker Piles	MINERAL	Cement			Industrial			
30500716	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Clinker Transfer	MINERAL	Cement			Industrial			
30500717	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Clinker Grinding	MINERAL	Cement			Industrial			
30500718	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Cement Silos	MINERAL	Cement			Industrial			
30500719	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Cement Load Out	CEMENT MFG	Cement			Industrial			
30500727	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Finish Grinding Mill Feed Belt	Cement	Cement			Industrial			
30500728	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Finish Grinding Mill Weigh Hopper	Cement	Cement			Industrial			
30500729	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Finish Grinding Mill Air Separator	Cement	Cement			Industrial			
30500799	TON	Industrial	Mineral	Cement Manufacturing (Wet Process)	Other Not Classified	MINERAL	Cement			Industrial			

	Equipment Type (40 CFR 63.1340 (b))	
New	Kiln (incl. all air bypass and inline coal mill)	Yes
Existing	Clinker Cooler	No
Reconstructed	Raw Mill	
	Finish Mill	
	Raw Material Dryer	
	Clinker Storage Bin	
	Finished Product Storage Bin	
	Conveyor Transfer Point	
	Bagging/Bulk Loading	
	Open Clinker Pile	
	Other (specify in notes/comments column)	

75832	2,2-Dimethylbutane	
38635319	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB-189)	Polychlorinated Biphenyls (Aroclors)
38380284	2,3,3',4,4',5,2,3,3',4,4',5'-Hexachlorobiphenyl (PCBs156/157)	Polychlorinated Biphenyls (Aroclors)
32588144	2,3,3',4,4',6-Pentachlorobiphenyl (PCB-105)	Polychlorinated Biphenyls (Aroclors)
52863736	2,3,4,4',5,5'-Hexachlorobiphenyl (PCB-167)	Polychlorinated Biphenyls (Aroclors)
74472370	2,3,4,4',5-Pentachlorobiphenyl (PCB-114)	Polychlorinated Biphenyls (Aroclors)
31508006	2,3',4,4',5-Pentachlorobiphenyl (PCB118)	Polychlorinated Biphenyls (Aroclors)
65519443	2,3',4,4',5' Pentachlorobiphenyl (PCB-123)	Polychlorinated Biphenyls (Aroclors)
79298	2,3-Dimethylbutane	
591968	2,3-Pentadiene	
7012375	2,4,4'-Trichlorobiphenyl (PCB-28)	Polychlorinated Biphenyls (Aroclors)
95954	2,4,5-Trichlorophenol	2,4,5-Trichlorophenol
88062	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol
90722	2,4,6-Tris(Dimethylamino)methylphenol	
120832	2,4-Dichlorophenol	
94757	2,4-Dichlorophenoxy Acetic Acid	And Esters
108087	2,4-Dimethylpentane	
105679	2,4-Dimethylphenol	
51285	2,4-Dinitrophenol	2,4-Dinitrophenol
121142	2,4-Dinitrotoluene	2,4-Dinitrotoluene
58498	2,4-Toluene Diisocyanate	
3778942	2,5-Dimethyl Benzaldehyde	2,4-Toluene Diisocyanate
638028	2,5-Dimethyl Thiophene	
53963	2-Acetylaminofluorene	2-Acetylaminofluorene
78922	2-Butanol	
107017	2-Butene	
112072	2-Butoxyethyl Acetate	Glycol Ethers
532274	2-Chloroacetophenone	2-Chloroacetophenone
2051607	2-Chlorobiphenyl (PCB-1)	Polychlorinated Biphenyls (Aroclors)
91387	2-Chloronaphthalene	Polycyclic Organic Matter
872559	2-Ethyl Thiophene	
1241947	2-Ethylhexyl Diphenyl Phosphate	
75854	2-Methyl-2-Butanol	
78784	2-Methylbutane	
592718	2-Methylheptane	
591764	2-Methylhexane	
91576	2-Methylnaphthalene	Polycyclic Organic Matter
78820	2-Methyl-Propanenitrile	Cyanide Compounds
607578	2-Nitrofluorene	Polycyclic Organic Matter
88755	2-Nitrophenol	
79469	2-Nitropropane	2-Nitropropane
107879	2-Pentanone	
20706256	2-Propoxyethyl Acetate	Glycol Ethers
10343552	n-Propanol's Chromium (Solvent Yellow 19)	Chromium Compounds
2530838	3-(Trimethoxysilyl)Propyl Glycidyl Ether	
32774166	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB-169)	Polychlorinated Biphenyls (Aroclors)
57465288	3,3',4,4',5-Pentachlorobiphenyl (PCB-126)	Polychlorinated Biphenyls (Aroclors)
32598133	3,3',4,4'-Tetrachlorobiphenyl (PCB-77)	Polychlorinated Biphenyls (Aroclors)
54872177	3,3',5,5'-Tetramethylbenzidine	
91941	3,3'-Dichlorobenzidine	3,3'-Dichlorobenzidine
119904	3,3'-Dimethoxybenzidine	3,3'-Dimethoxybenzidine
119937	3,3'-Dimethylbenzidine	3,3'-Dimethylbenzidine
70262604	3,4,4',5-Tetrachlorobiphenyl 3,4,4',5-TCB (PCB-81)	Polychlorinated Biphenyls (Aroclors)
10231335	3-Butoxy-1-Propanol	Glycol Ethers
13466789	3-Carene	
1589497	3-Methoxy-1-Propanol	Glycol Ethers
5132780	3-Methoxypropylamine	
56495	3-Methylcholanthrene	Polycyclic Organic Matter
589344	3-Methylhexane	
96140	3-Methylpentane	
5026744	4-(Diglycidylamino)phenyl Glycidyl Ether	
2095982	4,4'-Dichlorobiphenyl (PCB-15)	Polychlorinated Biphenyls (Aroclors)
13680358	4,4'-Methylenebis(2,6-Diethylbenzanimine)	
101144	4,4'-Methylenebis(2-Chloraniline)	4,4'-Methylenebis(2-Chloraniline)
16798387	4,4'-Methylenebis(2-Methyl-6-(1-Methylethyl)-Benzanimine)	
1761713	4,4'-Methylenebis(Cyclohexylamine)	
101779	4,4'-Methylenedianiline	4,4'-Methylenedianiline
101688	4,4'-Methylenediphenyl Diisocyanate	4,4'-Methylenediphenyl Diisocyanate (MDI)
134521	4,6-Dinitro-o-Cresol	4,6-Dinitro-o-Cresol (Including Salts)
92671	4-Aminobiphenyl	4-Aminobiphenyl
60117	4-Dimethylaminosobenzene	4-Dimethylaminosobenzene
123422	4-Hydroxy-4-Methyl-2-Pentanone	
70553	4-Methyl-Benzenesulfonamide	
92933	4-Nitrobiphenyl	4-Nitrobiphenyl
100027	4-Nitrophenol	4-Nitrophenol
3697243	5-Methylchrysene	Polycyclic Organic Matter
7496028	6-Nitrochrysene	Polycyclic Organic Matter
57876	7,12-Dimethylbenz[a]Anthracene	Polycyclic Organic Matter
779022	9-Methyl Anthracene	Polycyclic Organic Matter
7381160	9-Methylbenz[a]Anthracene	Polycyclic Organic Matter
83329	Acenaphthene	Polycyclic Organic Matter
208968	Acenaphthylene	Polycyclic Organic Matter
75070	Acetaldehyde	Acetaldehyde
60355	Acetamide	Acetamide
64187	Acetic Acid	
67641	Acetone	
75058	Acetonitrile	Acetonitrile
98862	Acetophenone	Acetophenone
74862	Acetylene	
107028	Acrolein	Acrolein
79061	Acrylamide	Acrylamide
79107	Acrylic Acid	Acrylic Acid
107131	Acrylonitrile	Acrylonitrile
64896AL	Aliphatic Amine	
88	Alkylated Lead	Lead Compounds
107051	Allyl Chloride	Allyl Chloride
28470782	Allyl Chloride Formaldehyde Phenol Polymer	
CELLULOSE	Alpha Cellulose Filler	
80568	Alpha-Pinene	
98555	Alpha-Terpinol	
7429905	Aluminum	
1344281	Aluminum Oxide	
WFO	Ammonia	
1341497	Ammonium Bifluoride	
7788989	Ammonium Chromate	Chromium Compounds
7789095	Ammonium Dichromate	Chromium Compounds
1336216	Ammonium Hydroxide	

624544	Amyl Propionate	
62533	Aniline	Aniline
120127	Anthracene	Polycyclic Organic Matter
99	Antimony & Compounds	Antimony Compounds
1327339	Antimony Oxide	Antimony Compounds
7783702	Antimony Pentafluoride	Antimony Compounds
1314609	Antimony Pentoxide	Antimony Compounds
19025929	Antimony Trichloride	Antimony Compounds
1309644	Antimony Trioxide	Antimony Compounds
15874483	Antimony tris(O,O-dipropyl tris(dithiophosphate)	Antimony Compounds
1345046	Antimony Trisulfide	Antimony Compounds
AKN151AT	Anti-Static Agent Cal Stat 600	
93	Arsenic & Compounds [Inorganic Including Arsenic]	Arsenic Compounds
7778394	Arsenic Acid	Arsenic Compounds
1303282	Arsenic Pentoxide	Arsenic Compounds
1327533	Arsenic Trioxide	Arsenic Compounds
3141126	Arsenous Acid	Arsenic Compounds
7784421	Arsine	Arsenic Compounds
1332214	Asbestos	Asbestos
144348878	Asphaltenes (gilsonite)	
205823	Bi[[Fluoranthene	Polycyclic Organic Matter
7440393	Barium	
10294403	Barium Chromate	Chromium Compounds
7727437	Barium Sulfate	
103	Benz[a]Anthracene/Chrysene	Polycyclic Organic Matter
56553	Benz[a]Anthracene	Polycyclic Organic Matter
100527	Benzaldehyde	
71432	Benzene	Benzene (Including Benzene From Gasoline)
141	Benzene Soluble Organics (BSO)	
92875	Benzidine	Benzidine
203138	Benzofluoranthene	Polycyclic Organic Matter
195197	Benzofluorene	Polycyclic Organic Matter
2031123	Benzofluoranthene	Polycyclic Organic Matter
50328	Benzofluoranthene	Polycyclic Organic Matter
202992	Benzofluoranthene	Polycyclic Organic Matter
103	Benzofluoranthene	Polycyclic Organic Matter
192972	Benzofluoranthene	Polycyclic Organic Matter
191242	Benzofluoranthene	Polycyclic Organic Matter
207089	Benzofluoranthene	Polycyclic Organic Matter
56832736	Benzofluoranthene	Polycyclic Organic Matter
65850	Benzoic Acid	
98077	Benzotrifluoride	Benzotrifluoride
94360	Benzoyl Peroxide	
16883833	Phthalate	
100516	Benzyl Alcohol	
100447	Benzyl Chloride	Benzyl Chloride
140294	Benzyl Cyanide	Cyanide Compounds
109	Beryllium & Compounds	Beryllium Compounds
7787475	Beryllium Chloride	Beryllium Compounds
7787497	Beryllium Fluoride	Beryllium Compounds
13587994	Beryllium Nitrate	Beryllium Compounds
1304569	Beryllium Oxide	Beryllium Compounds
13510491	Beryllium Oxide	Beryllium Compounds
127915	Beta-Bosone	
57578	Beta-Propiolactone	Beta-Propiolactone
92524	Biphenyl	Biphenyl
108601	Bi(2-chloro-1-methylethyl) ether	
117817	Bi(2-Ethylhexyl)phthalate	Bi(2-Ethylhexyl)phthalate (Dehp)
542881	Bi(Chloromethyl)Ether	Bi(Chloromethyl) Ether
7440699	Bismuth	
80057	BiPhenol A	
1075543	Bisphenol A Diglycidyl Ether	
25068386	Bisphenol A Epichlorohydrin Polymer	
37312337	Bisphenol A Epichlorohydrin Polymer with Toluene Diisocyanate	
2095036	Bisphenol F Diglycidyl Ether	
7440428	Boron	
75214	Bromodichloromethane	
75252	Bromoform	Bromoform
106978	Butane	
816682	Butanedioic Acid, Hydroxy-Lead (2+) Salt	Lead Compounds
35296721	Butanol	
85687	Butyl Benzyl Phthalate	
124174	Butyl Carbitol Acetate	Glycol Ethers
142961	Butyl Ether	
123728	Butyraldehyde	
68186934	C.I. Pigment Black 28	Chromium Compounds
71631157	C.I. Pigment Black 30	Chromium Compounds
147148	C.I. Pigment Blue 15	
1103384	C.I. Pigment Red 49, Barium Salt (2-1)	
125	Cadmium & Compounds	Cadmium Compounds
547908	Cadmium Acetate	Cadmium Compounds
7789426	Cadmium Bromide	Cadmium Compounds
10108642	Cadmium Chloride	Cadmium Compounds
34330648	Cadmium Chloride Monohydrate	Cadmium Compounds
14488192	Cadmium Fluoroborate	Cadmium Compounds
7790809	Cadmium Iodide	Cadmium Compounds
10325947	Cadmium Nitrate	Cadmium Compounds
1306190	Cadmium Oxide	Cadmium Compounds
1306247	Cadmium Selenide	Cadmium Compounds
13062857	Cadmium Selenide Sulfide	Cadmium Compounds
2223930	Cadmium Stearate	Cadmium Compounds
10124364	Cadmium Sulfate	Cadmium Compounds
1306236	Cadmium Sulfide	Cadmium Compounds
7440702	Calcium	
13765190	Calcium Chromate	Chromium Compounds
156627	Calcium Cyanamide	Calcium Cyanamide
1305620	Calcium Hydroxide	
79925	Camphene	
76212	Campher	
105602	Caprolactam	
133062	Captan	Captan
63252	Carbaryl	Carbaryl
86749	Carbazole	Polycyclic Organic Matter
112157	Carbitol Acetate	Glycol Ethers
CO2	Carbon Dioxide	
75150	Carbon Disulfide	Carbon Disulfide
CO	Carbon Monoxide	



56235	Carbon Tetrachloride	Carbon Tetrachloride
463796	Carbonic Acid	
463581	Carbonyl Sulfide	Carbonyl Sulfide
120809	Catechol	Catechol
111159	Cellosolve Acetate	Glycol Ethers
110805	Cellosolve Solvent	Glycol Ethers
9004346	Cellulose	
608	Ceramic Fibers (Man-Made)	Fine Mineral Fibers
133904	Chloramben	Chloramben
57749	Chlordane	Chlordane
16887006	Chloride	
7782505	Chlorine	Chlorine
10049044	Chlorine Dioxide	
1077200	Chloroacetaldehyde	
79118	Chloroacetic Acid	Chloroacetic Acid
108907	Chlorobenzene	Chlorobenzene
510156	Chlorobenzoate	Chlorobenzoate
124481	Chlorodibromomethane	
CFC	Chlorofluorocarbons	
67863	Chloroform	Chloroform
107302	Chloromethyl Methyl Ether	Chloromethyl Methyl Ether
126998	Chloroprene	Chloroprene
68186903	Chrome Antimony Titanium Buff	Chromium Compounds
14307336	Chromic Acid (H2Cr2O7), Calcium Salt (1-3)	Chromium Compounds
7789120	Chromic Acid (H2Cr2O7), Disodium Salt, Dihydrate	Chromium Compounds
14018952	Chromic Acid (H2Cr2O7), Zinc Salt (1-3)	Chromium Compounds
7738945	Chromic Acid (VI)	Chromium Compounds
24613896	Chromic Acid Chromium (+3) Salt	Chromium Compounds
1308389	Chromic Oxide	Chromium Compounds
10101538	Chromic Sulfate	Chromium Compounds
13130682	Chromic Sulfuric Acid	Chromium Compounds
7440473	Chromium	Chromium Compounds
136	Chromium & Compounds	Chromium Compounds
12012350	Chromium (2) Carbide	Chromium Compounds
10025737	Chromium (III) Chloride	Chromium Compounds
10060125	Chromium Chloride, Hexahydrate	Chromium Compounds
12018018	Chromium Dioxide	Chromium Compounds
1308141	Chromium Hydroxide	Chromium Compounds
1318820	Chromium Trioxide	Chromium Compounds
12018108	Chromium Zinc Oxide	Chromium Compounds
21679312	Chromium(III) acetylacetonate	Chromium Compounds
14877618	Chromyl Chloride	Chromium Compounds
7788967	Chromyl Fluoride	Chromium Compounds
718019	Chrysene	Polycyclic Organic Matter
8007452	Coal Tar	Polycyclic Organic Matter
139	Cobalt & Compounds	Cobalt Compounds
1345160	Cobalt Aluminate	Cobalt Compounds
68186867	Cobalt Aluminate Spinell (C.I. Pigment Blue 28 )	Cobalt Compounds
7542098	Cobalt Carbonate	Cobalt Compounds
68187495	Cobalt Chromite Green Spinell	Chromium Compounds
16842038	Cobalt Hydrocarbonyl	Cobalt Compounds
61789513	Cobalt Naphthenate	Cobalt Compounds
27253342	Cobalt Necessenolate	Cobalt Compounds
10030229	Cobalt Nitrate Hexahydrate	Cobalt Compounds
1307966	Cobalt Oxide	Cobalt Compounds
1308061	Cobalt Oxide (II,III)	Cobalt Compounds
10124433	Cobalt Sulfate	Cobalt Compounds
1317420	Cobalt Sulfide	Cobalt Compounds
68186856	Cobalt Titanate Green Spinell	Nickel Compounds
10141056	Cobalt(III) Nitrate	Cobalt Compounds
10294505	Cobalt(III) Phosphate Octahydrate	Cobalt Compounds
140	Coke Oven Emissions	Coke Oven Emissions
7440508	Copper	
544923	Copper Cyanide	Cyanide Compounds
191071	Coronene	Polycyclic Organic Matter
1319773	Cresol	Cresol/Cresylic Acid (Mixed Isomers)
14454481	Crispallite	
98828	Cumene	Cumene
80259	Cumene Hydroperoxide	
57225	Cyanide	Cyanide Compounds
144	Cyanide & Compounds	Cyanide Compounds
108918	Cyclohexanamine	
110827	Cyclohexane	
53880050	homopolymer	
108941	Cyclohexanone	
542932	Cyclopentadiene	
287923	Cyclopentane	
72559	Ode (1,1-Dichloro-2,2-Bis(p-Chlorophenyl) Ethylene)	Ode (1,1-Dichloro-2,2-Bis(p-Chlorophenyl) Ethylene)
20511243	Decachlorobiphenyl (PCB-209)	Polychlorinated Biphenyls (Aroclors)
16672392	Di(Ethylene Glycol Monobutyl Ether) Phthalate	Glycol Ethers
68855549	Diatomaceous Earth, Flux Calcined	
334883	Diazomethane	Diazomethane
95481622	Dibasic Esters	
15845520	Dibasic Lead Phosphate	Lead Compounds
192654	Dibenzol[a]Pyrene	Polycyclic Organic Matter
53703	Dibenzol[a,h]Anthracene	Polycyclic Organic Matter
189640	Dibenzo[a,h]Pyrene	Polycyclic Organic Matter
189559	Dibenzo[a,j]Pyrene	Polycyclic Organic Matter
224420	Dibenzol[a,j]Acridine	Polycyclic Organic Matter
191300	Dibenzol[a]Pyrene	Polycyclic Organic Matter
132649	Dibenzofuran	Dibenzofuran
84742	Dibutyl Phthalate	Dibutyl Phthalate
111444	Dichloroethyl Ether	Dichloroethyl Ether (Bis(2-Chloroethyl)Ether)
62737	Dichlorvos	Dichlorvos
77736	Dicyclopentadiene	
111422	Diethanolamine	Diethanolamine
110816	Diethyl Disulfide	
84662	Diethyl Phthalate	
54615	Diethyl Sulfate	Diethyl Sulfate
352932	Diethyl Sulfide	
111466	Diethylene Glycol	
4246519	Diethylene Glycol Diamino Propyl Ether	Glycol Ethers
120558	Diethylene Glycol Dibenzoate	Glycol Ethers
112387	Diethylene Glycol Diethyl ether	Glycol Ethers
4206615	Diethylene Glycol Diglycidyl Ether	Glycol Ethers
111966	Diethylene Glycol Dimethyl Ether	Glycol Ethers
693210	Diethylene Glycol Dinirate	Glycol Ethers

764998	Diethylene Glycol Divinyl Ether	Glycol Ethers
1002671	Diethylene Glycol Ethyl Methyl Ether	Glycol Ethers
10143530	Diethylene Glycol Ethylvinyl Ether	Glycol Ethers
10143541	Diethylene Glycol Mono-2-Cyanoethyl Ether	Glycol Ethers
112345	Diethylene Glycol Monobutyl Ether	Glycol Ethers
111900	Diethylene Glycol Monoethyl Ether	Glycol Ethers
18912806	Diethylene Glycol Monoisobutyl Ether	Glycol Ethers
111173	Diethylene Glycol Monomethyl Ether	Glycol Ethers
929373	Diethylene Glycol Monovinyl Ether	Glycol Ethers
10143563	Diethyleneglycol-Mono-2-Methyl-Pentyl Ether	Glycol Ethers
01050CVAN	Diisocyanates	
614920	Dimethyl Oxalide	
115106	Dimethyl Ether	
131113	Dimethyl Phthalate	Dimethyl Phthalate
77781	Dimethyl Sulfate	Dimethyl Sulfate
75183	Dimethyl Sulfide	
79447	Dimethylcarbamoyl Chloride	Dimethylcarbamoyl Chloride
117840	Di-n-octyl phthalate	
28911282	Dipropylene Glycol Butyl Ether	
34590948	Dipropylene Glycol Methyl Ether	
64742525	Distillates (petroleum), hydrotreated Heavy Naphthenic	
64742428	Distillates (petroleum), Hydrotreated Light	
5989275	d-Limonene	
27176870	Dodecylbenzenesulfonic Acid	
EPOXYR85	Epoxy Resins	
74840	Ethane	
64175	Ethanol	
141435	Ethanolamine	
117505	Ethoxylglycol	Glycol Ethers
7085850	Ethyl 2-Cyanoacrylate	
141786	Ethyl Acetate	
140885	Ethyl Acrylate	Ethyl Acrylate
100414	Ethyl Benzene	Ethylbenzene
51796	Ethyl Carbamate Chloride	Ethyl Carbamate (Urethane) Chloride (Chloroethane)
75003	Ethyl Chloride	Ethyl Chloride
75081	Ethyl Mercaptan	
624895	Ethyl Methyl Sulfide	
74851	Ethylene	
108394	Ethylene Dibromide	Ethylene Dibromide (Dibromoethane)
107082	Ethylene Dichloride	Ethylene Dichloride (1,2-Dichloroethane)
107211	Ethylene Glycol	Ethylene Glycol
1552359	Ethylene Glycol 2-Ethylhexyl Ether	Glycol Ethers
3775857	Ethylene Glycol Bis(2,3-Epoxy-2-Methylpropyl) Ether	Glycol Ethers
7529273	Ethylene Glycol Diethyl Ether	Glycol Ethers
629141	Ethylene Glycol Diethyl Ether	Glycol Ethers
109864	Ethylene Glycol Methyl Ether	Glycol Ethers
622082	Ethylene Glycol Monobenzyl Ether	Glycol Ethers
111762	Ethylene Glycol Monobutyl Ether	
110456	Ethylene Glycol Monomethyl Ether Acetate	Glycol Ethers
7795917	Ethylene Glycol Mono-Sec-Butyl Ether	Glycol Ethers
764487	Ethylene Glycol Monovinyl Ether	Glycol Ethers
75218	Ethylene Oxide	Ethylene Oxide
96467	Ethylene Thiourea	Ethylene Thiourea
674625	Ethylenebis(4-ethylenesulfonate) Tetraacetic Acid	Glycol Ethers
10137969	Ethyleneglycol Mono-2-Methylpentyl Ether	Glycol Ethers
23495127	Ethyleneglycol Monophenyl Ether Propionate	Glycol Ethers
10137981	Ethyleneglycolmono-2,6,8-Trimethyl-4-nonyl Ether	Glycol Ethers
151554	Ethyleneimine	Ethyleneimine (Aziridine)
75343	Ethylidene Dichloride (1,1-Dichloroethane)	Ethylidene Dichloride (1,1-Dichloroethane)
68409814	Fatty acids, C6-C19, branched, cobalt (2+) salts	Cobalt Compounds
13408623	Ferricyanide	Cyanide Compounds
1308312	Ferrichromite III	Chromium Compounds
383	Fine Mineral Fibers	Fine Mineral Fibers
16872110	Fluoboric acid	
206440	Fluoranthene	Polycyclic Organic Matter
86737	Fluorene	Polycyclic Organic Matter
7782414	Fluorine	
50000	Formaldehyde	Formaldehyde
110009	Furan	
99854	gamma-Terpinene	
61997173	Glass, Oxide	
613	Glasswool (Man-Made Fibers)	Fine Mineral Fibers
171	Glycol Ethers	Glycol Ethers
13967505	Gold (I) Potassium Cyanide	Cyanide Compounds
37187647	Gold Cyanide	Cyanide Compounds
64742945	Heavy Aromatic Solvent Naphtha (Petroleum)	
76448	Heptachlor	Heptachlor
28655712	Heptachlorobiphenyl	Polychlorinated Biphenyls (Aroclors)
142825	Heptane	
118741	Hexachlorobenzene	Hexachlorobenzene
2661649	Hexachlorobiphenyl	Polychlorinated Biphenyls (Aroclors)
87683	Hexachlorobutadiene	Hexachlorobutadiene
77474	Hexachlorocyclopentadiene	Hexachlorocyclopentadiene
67721	Hexachloroethane	Hexachloroethane
66251	Hexaldehyde	
822000	Hexamethylene Diisocyanate	Hexamethylene Diisocyanate
26182812	Hexamethylene Diisocyanate Homopolymer	
680319	Hexamethylphosphoramide	Hexamethylphosphoramide
110543	Hexane	Hexane
107835	Hexane Isomers (except n-Hexane)	
13586838	cobalt salt	Cobalt Compounds
136527	Hexanoic acid, 2-ethyl-, cobalt(2+) salt	Cobalt Compounds
302012	Hydrazine	Hydrazine
HE	Hydrocarbons	
7647010	Hydrochloric Acid	Hydrochloric Acid (Hydrogen Chloride (Gas Only))
7664393	Hydrogen Fluoride	Hydrogen Fluoride (Hydrofluoric Acid)
HFC	Hydrofluorocarbons	
12021953	Hydrofluoroiconic Acid	
74958	Hydrogen Cyanide	Cyanide Compounds
7783075	Hydrogen Selenide	Selenium Compounds
7783064	Hydrogen Sulfide	
61788327	Hydrogenated Terphenyl	
123319	Hydroquinone	Hydroquinone
95136	Iodene	Polycyclic Organic Matter
193395	Indeno[1,2,3-c,d]Pyrene	Polycyclic Organic Matter
10043660	Iodine 131	Radionuclides (Including Radon)
7439896	Iron	

68187097	Iron Chromite Brown Spinel (C.I. Pigment Brown 35)	Chromium Compounds
12645497	Iron Manganese Zinc Oxide	Manganese Compounds
14039438	Iron(III) Ferrocyanide	Cyanide Compounds
75285	Isobutane	
78831	Isobutanol	
115117	Isobutene	
110190	Isobutyl Acetate	
4435241	Isobutyl Cellulosive	Glycol Ethers
513440	Isobutyl Mercaptan	
78842	Isobutyraldehyde	
150CYAN	Isocyanates	
76591	Isophorone	Isophorone
4098719	Isophorone Dicyanate	
78795	Isoprene	
67630	Isopropanol	
75132	Isopropyl Mercaptan	
59083	Isovaleraldehyde	
8008206	Kerosene	
1302767	Kyanite	
1317368	Lead (II) Oxide	Lead Compounds
1314416	Lead (II, IV) Oxide	Lead Compounds
301942	Lead Acetate	Lead Compounds
778409	Lead Arsenate	Lead Compounds
10031137	Lead Arsenite	Lead Compounds
65997184	Lead Boriccate (Frits)	Lead Compounds
598630	Lead Carbonate	Lead Compounds
7758976	Lead Chromate	Lead Compounds
12656858	Lead Chromate Molybdate Sulfate (C.I. Pigment Red 104)	Lead Compounds
18454121	Lead Chromate Oxide	Lead Compounds
602	Lead Compounds (Inorganic)	Lead Compounds
603	Lead Compounds (Other Than Inorganic)	Lead Compounds
1309600	Lead Dioxide	Lead Compounds
13814965	Lead Fluoroborate	Lead Compounds
61790145	Lead Naphthenate	Lead Compounds
27253287	Lead Neodecanoate	Lead Compounds
10099748	Lead Nitrate	Lead Compounds
1335257	Lead Oxide	Lead Compounds
12141207	Lead Oxide Phosphonate	Lead Compounds
7446277	Lead Phosphate	Lead Compounds
7629480	Lead Stearate	Lead Compounds
1335326	Lead Subacetate	Lead Compounds
7446142	Lead Sulfate	Lead Compounds
12060003	Lead Titanate	Lead Compounds
12620812	Lead Titanate Zircon	Lead Compounds
64742898	Light Aliphatic Solvent Naphtha (Petroleum)	
7439932	Lithium	
14307358	Lithium Chromate	Chromium Compounds
1134787	m,p-Tolaldehyde	
7439954	Magnesium	
13423615	Magnesium Chromate	Chromium Compounds
14104859	Magnesium Dichromate	Chromium Compounds
1335268	Magnesium Peroxide	
108316	Maleic Anhydride	Maleic Anhydride
188	Manganese & Compounds	Manganese Compounds
598629	Manganese Carbonate	Manganese Compounds
1313139	Manganese Dioxide	Manganese Compounds
68186947	Manganese Ferrite Black Spinel (C.I. Pigment Black 26)	Manganese Compounds
1316912	Manganese Naphthenate	Manganese Compounds
10377669	Manganese Nitrate	Manganese Compounds
7785877	Manganese Sulfate	Manganese Compounds
8030704	Manganese Talfate	Manganese Compounds
1317357	Manganese Tetroxide	Manganese Compounds
1317346	Manganese Trioxide	Manganese Compounds
7783166	Manganese(II) Hypophosphite Monohydrate	Manganese Compounds
12079651	Manganese, Tricarbonyl (eta-5-2,4-cyclopentadien-1-yl)-	Manganese Compounds
108394	m-Cresol	Cresol/Cresylic Acid (Mixed Isomers)
64742887	Medium Aliphatic Solvent Naphtha (Petroleum)	
149304	Mercaptobenzothiazole	
7487947	Mercuric Chloride	Mercury Compounds
21908532	Mercuric Oxide	Mercury Compounds
599	Mercury & Compounds	Mercury Compounds
22967926	Mercury (Organic)	Mercury Compounds
62384	Mercury Acetato Phen	Mercury Compounds
CH4	Methane	
75718	Methane, Dichlorodifluoro-	
67561	Methanol	Methanol
72435	Methoxychlor	Methoxychlor
1111104	Methoxyethyl Oleate	Glycol Ethers
117356	Methoxytriglycol	Glycol Ethers
137053	Methyl 2-Cyanoacrylate	
110430	Methyl Amyl Ketone	
74839	Methyl Bromide	Methyl Bromide (Bromomethane)
140056	Methyl Cellulosive Acetylricinoleate	Glycol Ethers
3121617	Methyl Cellulosive Acrylate	Glycol Ethers
74839	Methyl Chloride	Methyl Chloride (Chloromethane)
71556	Methyl Chloroform	Methyl Chloroform (1,1,1-Trichloroethane)
78933	Methyl Ethyl Ketone	
74884	Methyl Iodide	Methyl Iodide (Iodomethane)
108101	Methyl Isobutyl Ketone	Methyl Isobutyl Ketone (Hexone)
634839	Methyl Isocyanate	Methyl Isocyanate
593759	Methyl Isocyanide	Cyanide Compounds
74931	Methyl Mercaptan	
593748	Methyl Mercury	Mercury Compounds
80626	Methyl Methacrylate	Methyl Methacrylate
1634044	Methyl Tert-Butyl Ether	Methyl Tert-Butyl Ether
616444	Methyl Thiophene	
26914181	Methylanthracene	Polycyclic Organic Matter
65357699	Methylbenzopyrene	Polycyclic Organic Matter
41637905	Methylchrysene	Polycyclic Organic Matter
108872	Methylcyclohexane	
96377	Methylcyclopentane	
74953	Methylene Bromide	
75092	Methylene Chloride	Methylene Chloride (Dichloromethane)
142	Methylene Chloride Soluble Organics (MCSO)	Coke Oven Emissions
60344	Methylhydrazine	Methylhydrazine
7439987	Molybdenum	
1313275	Molybdenum Oxide	

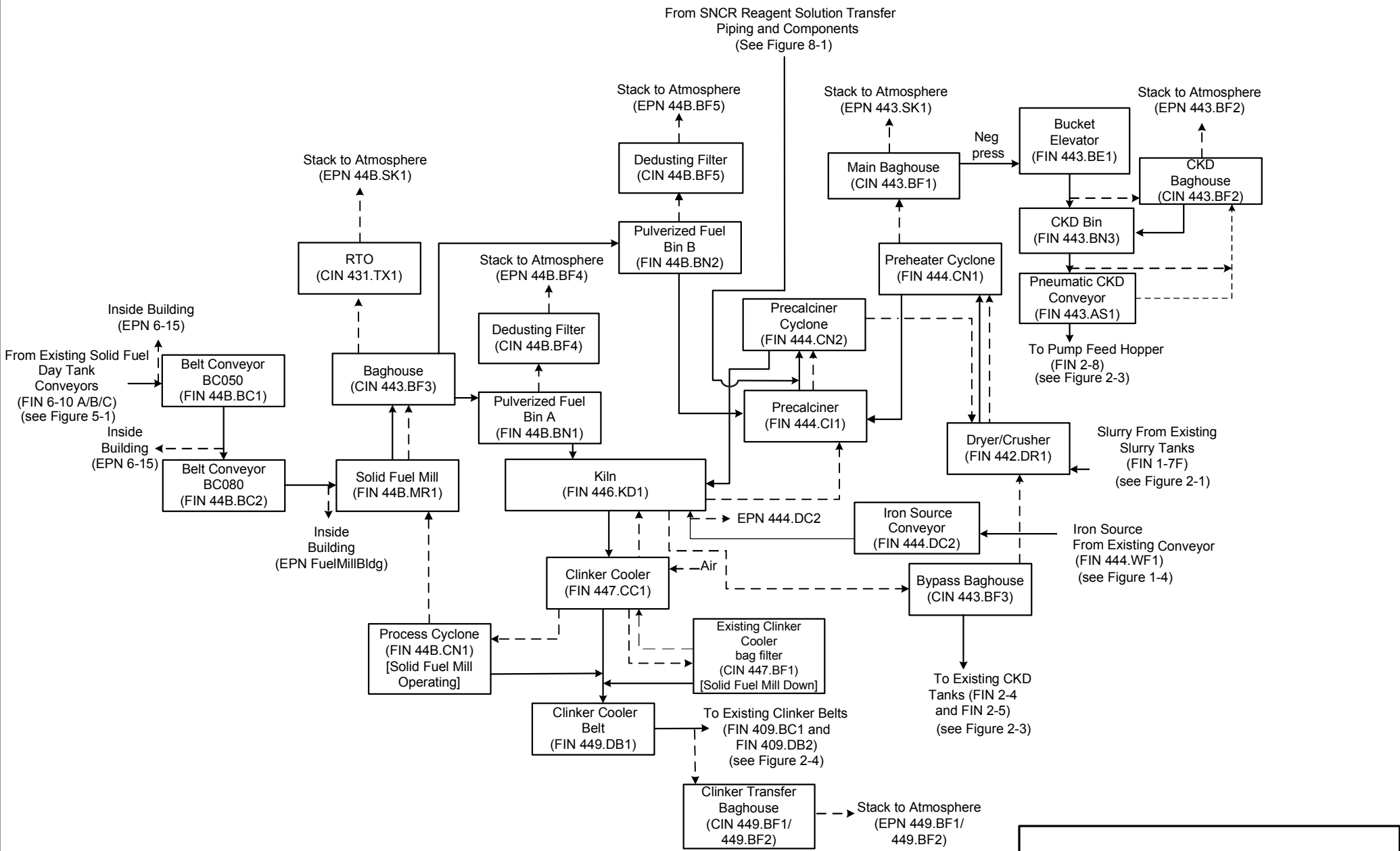
27323188	Monochlorobiphenyl	
MONO	Monoterpenes	
108383	n-Xylene	Xylenes (Mixed Isomers)
123697	N,N-Dimethylaniline	N,N-Dimethylaniline
68122	N,N-Dimethylformamide	N,N-Dimethylformamide
8030306	Naphtha	
91203	Naphthalene	Naphthalene
123864	n-Butyl Acetate	
2426086	n-Butyl Glycidyl Ether	
109795	n-Butyl Mercaptan	
3724965	Naphthene Syntite	
2201152	N-Ethyl-1-Phenyl-Cyclohexanamine	
112594	N-Hexyl Carbitol	Glycol Ethers
226	Nickel & Compounds	Nickel Compounds
10101970	Nickel (II) Sulfate Hexahydrate	Nickel Compounds
14336700	Nickel 59	Nickel Compounds
973024	Nickel Acetate	Nickel Compounds
8007189	Nickel Antimony Titanium Oxide (C.I. Pigment Yellow 53)	Nickel Compounds
13463889	Nickel Bromide	Nickel Compounds
12710360	Nickel Carbide	Nickel Compounds
3338673	Nickel Carbonate	Nickel Compounds
13463395	Nickel Carbonyl	Nickel Compounds
7718549	Nickel Chloride	Nickel Compounds
6018899	Nickel Diacetate TET	Nickel Compounds
12054487	Nickel Hydroxide	Nickel Compounds
13138459	Nickel Nitrate	Nickel Compounds
604	Nickel Refinery Dust	Nickel Compounds
12035722	Nickel Sulfide	Nickel Compounds
13770893	Nickel Sulfamate	Nickel Compounds
7786814	Nickel Sulfate	Nickel Compounds
15751005	Nickel(2+) hexakis(1H-imidazole-kappa N3)-dichloride, (OC-6-11)	Nickel Compounds
1313991	Nickel(II) Oxide	Nickel Compounds
1314063	Nickel(III) Oxide	Nickel Compounds
1271289	Nickelocene	Nickel Compounds
	Nitrate Compounds	
7657372	Nitric Acid	
98953	Nitrobenzene	Nitrobenzene
10102440	Nitrogen Dioxide	
	Nitrogen Oxides	
NOX		
N2O	Nitrous Oxide	
872504	N-Methyl-2-Pyrrolidone	
62759	N-Nitrosodimethylamine	N-Nitrosodimethylamine
59892	N-Nitrosomorpholine	N-Nitrosomorpholine
684935	N-Nitroso-N-Methylurea	N-Nitroso-N-Methylurea
51742077	Nonachlorobiphenyl	Polychlorinated Biphenyls (Aroclors)
111842	Nonane	
106945	n-Propyl Bromide	
107039	n-Propyl Mercaptan	
103651	n-Propylbenzene	
90040	o-Anisidine	o-Anisidine
95578	o-Chlorophenol	
95487	o-Cresol	Cresol/Cresylic Acid (Mixed Isomers)
55722264	Octachlorobiphenyl	Polychlorinated Biphenyls (Aroclors)
111659	Octene	
112801	Oleic Acid	
529204	o-Tolualdehyde	
95534	o-Toluidine	o-Toluidine
2768323	o-toluenylmethyl-	
95476	o-Xylene	Xylenes (Mixed Isomers)
130498292	PAH, total	Polycyclic Organic Matter
56382	Parathion	Parathion
100445	p-Cresol	Cresol/Cresylic Acid (Mixed Isomers)
99876	p-Cymene	
105055	p-Diethylbenzene	
123911	p-Dioxane	p-Dioxane
25429292	Pentachlorobiphenyl	Polychlorinated Biphenyls (Aroclors)
62658	Pentachloronitrobenzene	Pentachloronitrobenzene (Quintobenzene)
87865	Pentachlorophenol	Pentachlorophenol
109660	Pentane	
590352	Pentane, 2,2-dimethyl-	
562492	Pentane, 3,3-dimethyl-	
975	Perfluorocarbons	
10101505	Permanganic acid	Manganese Compounds
198550	Perylene	Polycyclic Organic Matter
85018	Phenanthrene	Polycyclic Organic Matter
109952	Phenol	Phenol
PFHEXARESIN	Phenol Formaldehyde Resin with Hexamethylenetetramine	
28064144	Phenol, Polymer with Formaldehyde, Glycidyl Ether	
127996	Phenyl Cellosolve	Glycol Ethers
103719	Phenyl Isocyanate	
75445	Phosgene	Phosgene
7803512	Phosphine	Phosphine
7789040	Phosphoric Acid Chromium (+3) Salt	Chromium Compounds
13455362	Phosphoric acid, cobalt(2+) salt (2-3)	Cobalt Compounds
13611546	Phosphoric acid, monosodium salt	
92303055	Chromium Oxide (CrO3)	Chromium Compounds
7723140	Phosphorus	Phosphorus
398	Phosphorus & Compounds	
85469	Phthalic Anhydride	Phthalic Anhydride
11263823	Polychlorinated Biphenyls	Polychlorinated Biphenyls (Aroclors)
246	Polycyclic Organic Matter	Polycyclic Organic Matter
T	PolyEpoxy Resin Aminophenylfluorene Curing Agent	
27252875	Polyethylene Glycol Allyl Ether Acetate	
25652475	Acid dimethacrylate	
150C7AAP	Polysulfonates	
9016879	Polymeric Diphenylmethane Diisocyanate	
9003081	Polymerized Melamine Molding Compound	
7440097	Potassium	
7789006	Potassium Chromate	Chromium Compounds
151508	Potassium Cyanide	Cyanide Compounds
7778509	Potassium Dichromate	Chromium Compounds
13746662	Potassium Ferricyanide	Cyanide Compounds
13943943	Potassium Ferrocyanide	Cyanide Compounds
1330583	Potassium Hydroxide	
14220178	Potassium Nickel Cyanide	Nickel Compounds
7722647	Potassium permanganate	Manganese Compounds
506616	Potassium Silver Cyanide	Cyanide Compounds

106503	p-Phenylenediamine	p-Phenylenediamine
463490	Propadiene	
74966	Propane	
123386	Propionaldehyde	Propionaldehyde
114261	Propoxur	Propoxur (Baygon)
2807309	Propyl Cellosolve	Glycol Ethers
115071	Propylene	
78875	Propylene Dichloride	Propylene Dichloride (1,2-Dichloropropane)
107982	Propylene Glycol 3-Methyl Ether	
108656	Acetate)	
5131668	Propylene Glycol n-Butyl Ether	
51018527	Propylene Glycol Tert-Butyl Ether	
25069	Propylene Oxide	Propylene Oxide
106423	p-Xylene	Xylenes (Mixed Isomers)
129000	Pyrene	Polycyclic Organic Matter
110861	Pyridine	
1480607	Quartz	
91225	Quinoline	Quinoline
106514	Quinone	Quinone (p-Benzoquinone)
605	Radionuclides	Radionuclides (Including Radon)
400	Radionuclides (Including Radon)	Radionuclides (Including Radon)
606	Radon And Its Decay Products	Radionuclides (Including Radon)
142844006	Refractory Ceramic Fiber	
483658	Retene	Polycyclic Organic Matter
1314289	Rhenium Oxide	
617	Rockwood (Man-Made Fibers)	Fine Mineral Fibers
81072	Saccharin	
253	Selenium & Compounds	Selenium Compounds
7446084	Selenium Dioxide	Selenium Compounds
7488564	Selenium Disulfide	Selenium Compounds
7781791	Selenium Hexafluoride	Selenium Compounds
7446346	Selenium Monosulfide	Selenium Compounds
12640890	Selenium Oxide	Selenium Compounds
7783008	Selenous Acid	Selenium Compounds
7631869	Silica	
7440213	Silicon	
11294525	Silicon Dioxide	
7440224	Silver	
508649	Silver Cyanide	Cyanide Compounds
616	Slagwood (Man-Made Fibers)	Fine Mineral Fibers
7440235	Sodium	
1333831	Sodium Bifluoride	
7775113	Sodium Chromate	Chromium Compounds
10034829	Sodium Chromate(VI)	Chromium Compounds
143339	Sodium Cyanide	Cyanide Compounds
10588019	Sodium Dichromate	Chromium Compounds
16925250	Sodium Hexafluoroantimonate	Antimony Compounds
1310732	Sodium Hydroxide	
7631994	Sodium Nitrate	
STLITE	Stauroilite	
8052413	Stoddard Solvent	
7440246	Strontium	
7789062	Strontium Chromate	Chromium Compounds
109425	Styrene	Styrene
96093	Styrene Oxide	Styrene Oxide
14808798	Sulfate	
18496258	Sulfide	
7704349	Sulfur	
503	Sulfur Dioxide	
SF6	Sulfur Hexafluoride	
7664939	Sulfuric Acid	
26140603	Terphenyl	
994058	tert-Amyl Methyl Ether	
75650	tert-Butanol (2-Propanol, 2-Methyl)	
540885	tert-Butyl Acetate	
75661	tert-Butyl Mercaptan	
26514330	Tetrachlorobiphenyl	Polychlorinated Biphenyls (Aroclors)
127184	Tetrachloroethylene	Tetrachloroethylene (Perchloroethylene)
78002	Tetraethyl Lead	Lead Compounds
110010	Tetrahydrothiophene	
7440280	Thallium	Radionuclides (Including Radon)
110021	Thiophene	
7440291	Thorium-232	Radionuclides (Including Radon)
7440315	Tin	
7440326	Titanium	
13463677	Titanium Dioxide	
7550450	Titanium Tetrachloride	Titanium Tetrachloride
108883	Toluene	Toluene
26471625	Toluene Diisocyanates (mixture)	
99807	Toluene-2,4-Diamine	Toluene-2,4-Diamine
TF	Total Fluorides	
T85	Total Reduced Sulfur	
T85 (H2S)	Total Reduced Sulfur (as H2S)	
T85 as S	Total Reduced Sulfur (as S)	
8061352	Toxaphene	Toxaphene (Chlorinated Camphene)
123728	Trans-Crotonaldehyde	
37680685	Trichlorobiphenyl	Polychlorinated Biphenyls (Aroclors)
79016	Trichloroethylene	Trichloroethylene
75884	Trichlorofluoromethane	
121448	Triethylamine	Triethylamine
112276	Triethylene glycol	Glycol Ethers
112492	Triethylene Glycol Dimethyl Ether	Glycol Ethers
1582098	Trifluralin	Trifluralin
148226	Triglycol Monobutyl Ether	Glycol Ethers
7736947	Triisobutylene	
25551137	Trimethylbenzene	
15625895	Trimethylolpropane Triacrylate	
7440611	Uranium	Radionuclides (Including Radon)
1344525	Uranium Dioxide	Radionuclides (Including Radon)
7783815	Uranium Hexafluoride	Radionuclides (Including Radon)
1344598	Uranium Oxide	Radionuclides (Including Radon)
541093	Uranyl Acetate	Radionuclides (Including Radon)
110623	Valeraldehyde	
7448022	Vanadium	
108054	Vinyl Acetate	Vinyl Acetate
593602	Vinyl Bromide	Vinyl Bromide
75014	Vinyl Chloride	Vinyl Chloride

75354	Vinylidene Chloride	Vinylidene Chloride (1,1-Dichloroethylene)
VOC	Volatile Organic Compounds	
1380267	Xylenes (Mixture of o, m, and p isomers)	Xylenes (Mixed isomers)
7440055	Yttrium	
7440066	Zinc	
13530659	Zinc Chromate	Chromium Compounds
50522297	Zinc Chromite	Chromium Compounds
557211	Zinc Cyanide	Cyanide Compounds
68186889	Zinc Iron Chromite Brown Spinel (C.I. Pigment Brown 33)	Chromium Compounds
7779900	Zinc Phosphate	
37224570	Zinc Potassium Chromate	Chromium Compounds
11103869	Zinc Potassium Chromate Hydroxide	Chromium Compounds
14840682	Zircon	

CO2	Carbon Dioxide
CH4	Methane
N2O	Nitrous Oxide

## Exhibit A



Legend

-----> Gas

-----> AGP000322 Material

Notes:

1. Other types of fuel that can be used in the Precalciner include: TDF, Wood Chips, Natural Gas, and New and Used Oil.

2. Other types of fuel that can be used in the Kiln include: Wood Chips, Natural Gas, and New and Used Oil.

Ash Grove Cement Company

Figure 2-2.

Clinker Production

Reviewed: June 2014



Exhibit B

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO  
Ash Grove Cement Company

AUTHORIZING THE OPERATION OF  
Midlothian Plant  
Cement Manufacturing

LOCATED AT  
Ellis County, Texas  
Latitude 32° 31' 10" Longitude 97° 0' 27"  
Regulated Entity Number: RN100225978

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O1054 Issuance Date: November 27, 2019



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For the Commission

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## **General Terms and Conditions**

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five-year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

## **Special Terms and Conditions:**

### **Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting**

1. Permit holder shall comply with the following requirements:
  - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
  - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
  - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
  - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

- E. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.
  - F. Emission units subject to 40 CFR Part 63, Subpart LLL as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.690 which incorporates the 40 CFR Part 63 Subpart by reference.
  - G. For the purpose of generating emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 1 (Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
    - (i) Title 30 TAC § 101.302 (relating to General Provisions)
    - (ii) Title 30 TAC § 101.303 (relating to Emission Reduction Credit Generation Certification)
    - (iii) Title 30 TAC § 101.304 (relating to Mobile Emission Reduction Credit Generation and Certification)
    - (iv) Title 30 TAC § 101.309 (relating to Emission Credit Banking and Trading)
    - (v) The terms and conditions by which the emission limits are established to generate the reduction credit are applicable requirements of this permit
  - H. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
    - (i) Title 30 TAC § 101.372 (relating to General Provisions)
    - (ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)
    - (iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)
    - (iv) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)
    - (v) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
  - B. Title 30 TAC § 101.3 (relating to Circumvention)
  - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ

- D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
  - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
  - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
  - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
  - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
  - I. Title 30 TAC § 101.222 (relating to Demonstrations)
  - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
    - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
    - (ii) Title 30 TAC § 111.111(a)(1)(E)
    - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
    - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
      - (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
      - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall

be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.

- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (5) Compliance Certification:
  - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
  - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
  - (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

- B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:
- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
  - (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
  - (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
    - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
    - (2) Records of all observations shall be maintained.
    - (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
    - (4) Compliance Certification:
      - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A).
      - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later



than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- C. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:
- (i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)
  - (ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)
  - (iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
    - (1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.
    - (2) Records of all observations shall be maintained.
    - (3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
    - (4) Compliance Certification:
      - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)

- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- D. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- E. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- F. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
  - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
  - (ii) Sources with an effective stack height ( $h_e$ ) less than the standard effective stack height ( $H_e$ ), must reduce the allowable emission level by multiplying it by  $[h_e/H_e]^2$  as required in 30 TAC § 111.151(b)
  - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- 4. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:
  - A. When filling stationary gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities, constructed prior to November 15, 1992, with transfers to stationary storage tanks located at a facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:
    - (i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
    - (ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)
    - (iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
    - (iv) Title 30 TAC § 115.226(2)(B) (relating to Recordkeeping Requirements)

5. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
  - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
  - B. Title 40 CFR § 60.8 (relating to Performance Tests)
  - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
  - D. Title 40 CFR § 60.12 (relating to Circumvention)
  - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
  - F. Title 40 CFR § 60.14 (relating to Modification)
  - G. Title 40 CFR § 60.15 (relating to Reconstruction)
  - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
6. For open storage piles; including equipment used in loading, unloading, and conveying operations; constructed, reconstructed, or modified after May 27, 2009, the permit holder shall comply with the following requirements of 40 CFR Part 60, Subpart Y for control of fugitive coal dust emissions:
  - A. Title 40 CFR § 60.254(c) and (c)(1) (relating to Standards for coal processing and conveying equipment, coal storage systems, transfer and loading systems, and open storage piles), for preparation of and operation in accordance with a fugitive coal dust emissions control plan
  - B. Title 40 CFR § 60.254(c)(2) and (c)(6) (relating to Standards for coal processing and conveying equipment, coal storage systems, transfer and loading systems, and open storage piles), for control measures for open coal storage piles
  - C. Title 40 CFR § 60.254(c)(3) and (c)(3)(i) - (iv) (relating to Standards for coal processing and conveying equipment, coal storage systems, transfer and loading systems, and open storage piles), for alternative control measures
  - D. Title 40 CFR § 60.254(c)(4), (c)(4)(i) - (ii), and (c)(5)(ii) (relating to Standards for coal processing and conveying equipment, coal storage systems, transfer and loading systems, and open storage piles) for submittal of the fugitive coal dust emissions control plan
  - E. Title 40 CFR § 60.258(a) and (a)(6) (relating to Reporting and recordkeeping)
7. For the nonmetallic mineral processing operations specified in 40 CFR Part 60, Subpart OOO, the permit holder shall comply with the following requirements:
  - A. Title 40 CFR § 60.670(f) (relating to Applicability and Designation of Affected Facility), for Table 1 for Subpart A
  - B. Title 40 CFR § 60.673(a) - (b) (relating to Reconstruction)
  - C. Title 40 CFR § 60.676(h) (relating to Reporting and Recordkeeping)

8. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
9. For each gasoline dispensing facility, with a throughput of less than 10,000 gallons per month as specified in 40 CFR Part 63, Subpart CCCCCC, the permit holder shall comply with the following requirements:
  - A. Title 40 CFR § 63.11111(e), for records of monthly throughput
  - B. Title 40 CFR § 63.11111(i), for compliance due to increase of throughput
  - C. Title 40 CFR § 63.11113(c), for compliance due to increase of throughput
  - D. Title 40 CFR § 63.11115(a), for operation of the source
  - E. Title 40 CFR § 63.11116(a) and (a)(1) - (4), for work practices
  - F. Title 40 CFR § 63.11116(b), for records availability
  - G. Title 40 CFR § 63.11116(d), for portable gasoline containers
10. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

#### **Additional Monitoring Requirements**

11. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

#### **New Source Review Authorization Requirements**

12. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under

30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:

- A. Are incorporated by reference into this permit as applicable requirements
  - B. Shall be located with this operating permit
  - C. Are not eligible for a permit shield
13. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
14. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).
15. The permit holder shall comply with the following requirements for Air Quality Standard Permits:
- A. Registration requirements listed in 30 TAC § 116.611, unless otherwise provided for in an Air Quality Standard Permit
  - B. General Conditions listed in 30 TAC § 116.615, unless otherwise provided for in an Air Quality Standard Permit
  - C. Requirements of the non-rule Air Quality Standard Permit for Pollution Control Projects

#### **Compliance Requirements**

16. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
17. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
- A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:
    - (i) For sources in the Dallas-Fort Worth Eight-Hour Nonattainment area, 30 TAC § 117.9030
  - B. The permit holder shall comply with the Initial Control Plan unit identification requirements in 30 TAC § 117.450(a) and (a)(1)-(7).

- C. The permit holder shall comply with the requirements of 30 TAC § 117.452 for Final Control Plan Procedures for Reasonably Available Control Technology (RACT) and 30 TAC § 117.456 for Revision of Final Control Plan.
  - D. The permit holder shall comply with the requirements of 30 TAC § 117.454 for Final Control Plan Procedures for Attainment Demonstration Emission Specifications and 30 TAC § 117.456 for Revision of Final Control Plan.
  - E. The permit holder shall comply with the requirement in 30 TAC § 117.450(b) for identification of exempt units in the Initial Control Plan.
  - F. The permit holder shall comply with the compliance schedule as required in 30 TAC § 117.9320 for cement kilns.
18. Use of Emission Credits to comply with applicable requirements:
- A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) Offsets for Title 30 TAC Chapter 116
  - B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:
    - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)-(d)
    - (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1
    - (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)-(d)
    - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122
    - (v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)
19. Use of Discrete Emission Credits to comply with the applicable requirements:
- A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) If applicable, offsets for Title 30 TAC Chapter 116

- (iv) Temporarily exceed state NSR permit allowables
- B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
  - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
  - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
  - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
  - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
  - (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

### **Protection of Stratospheric Ozone**

- 20. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:
  - A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

### **Alternative Requirements**

- 21. The permit holder shall comply with the approved alternative means of control (AMOC); alternative monitoring, recordkeeping, or reporting requirements; or requirements determined to be equivalent to an otherwise applicable requirement contained in the Alternative Requirements attachment of this permit. Units complying with an approved alternative requirement have reference to the approval in the Applicable Requirements summary listing for the unit. The permit holder shall maintain the original documentation, from the TCEQ Executive Director, demonstrating the method or limitation utilized. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144.

### **Permit Location**

- 22. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

### **Permit Shield (30 TAC § 122.148)**

- 23. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only

requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.



## **Attachments**

**Applicable Requirements Summary**

**Additional Monitoring Requirements**

**Permit Shield**

**New Source Review Authorization References**

**Alternative Requirement**

### **Applicable Requirements Summary**

**Unit Summary ..... 16**

**Applicable Requirements Summary ..... 22**

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
10	EMISSION POINTS/ STATIONARY VENTS/ PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
11	EMISSION POINTS/ STATIONARY VENTS/ PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
1-10	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-11A	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-11B	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-12	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-16	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-16A1	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-16A2	MINERAL PROCESSING PLANT	N/A	60F-2(08+)	40 CFR Part 60, Subpart F	No changing attributes.
1-18	MINERAL PROCESSING PLANT	N/A	60OOO-1	40 CFR Part 60, Subpart OOO	No changing attributes.
1-19	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-20	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-21	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-22	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-23	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-24	MINERAL PROCESSING PLANT	N/A	60OOO-2	40 CFR Part 60, Subpart OOO	No changing attributes.
1-25	MINERAL PROCESSING PLANT	N/A	60OOO-2	40 CFR Part 60, Subpart OOO	No changing attributes.
1-25C	MINERAL PROCESSING PLANT	N/A	60OOO-2	40 CFR Part 60, Subpart OOO	No changing attributes.
1-27	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-28	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
1-29	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-2C	MINERAL PROCESSING PLANT	N/A	60OOO-2	40 CFR Part 60, Subpart OOO	No changing attributes.
1-2F	MINERAL PROCESSING PLANT	N/A	60OOO-1	40 CFR Part 60, Subpart OOO	No changing attributes.
1-30	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-31	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-32	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-33	MINERAL PROCESSING PLANT	N/A	60F-1(08+)	40 CFR Part 60, Subpart F	No changing attributes.
1-41	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
1-42	SRIC ENGINES	N/A	R7403-0	30 TAC Chapter 117, Subchapter B	No changing attributes.
1-42	SRIC ENGINES	N/A	63ZZZZ-2	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
1-46	SRIC ENGINES	N/A	R7403-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
1-46	SRIC ENGINES	N/A	63ZZZZ-2	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
1-48	SRIC ENGINES	N/A	R7410-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
1-48	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
1-48	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
1-6C	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-6D	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-9A	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
1-9B	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
2-10	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
2-11	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
2-6A	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
2-6B	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
27	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
2-9	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
3-10	MINERAL PROCESSING PLANT	N/A	63LLL-CLK PILE	40 CFR Part 63, Subpart LLL	No changing attributes.
3-14	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
3-15	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
32	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
443.SK1	EMISSION POINTS/ STATIONARY VENTS/ PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
444.DC2	MINERAL PROCESSING PLANT	N/A	60F-2(08+)	40 CFR Part 60, Subpart F	No changing attributes.
446.EG1	SRIC ENGINES	N/A	R7403-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
446.EG1	SRIC ENGINES	N/A	60III-2	40 CFR Part 60, Subpart III	No changing attributes.
446.EG1	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
44B.BC1	COAL PREPARATION PLANT	N/A	60Y-1(08+)	40 CFR Part 60, Subpart Y	No changing attributes.
44B.BC2	COAL PREPARATION PLANT	N/A	60Y-1(08+)	40 CFR Part 60, Subpart Y	No changing attributes.
44B.BN1	COAL PREPARATION PLANT	N/A	60Y-1(08+)	40 CFR Part 60, Subpart Y	No changing attributes.
44B.BN2	COAL PREPARATION PLANT	N/A	60Y-1(08+)	40 CFR Part 60, Subpart Y	No changing attributes.
44B.DG1	COAL PREPARATION PLANT	N/A	60Y-1(08+)	40 CFR Part 60, Subpart Y	No changing attributes.
44B.MR1	COAL PREPARATION PLANT	N/A	60Y-3(09+)	40 CFR Part 60, Subpart Y	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
44B.SK1	EMISSION POINTS/ STATIONARY VENTS/ PROCESS VENTS	N/A	R5127-A2A	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
4-5	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
4-6	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
5	EMISSION POINTS/ STATIONARY VENTS/ PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
5	EMISSION POINTS/ STATIONARY VENTS/ PROCESS VENTS	N/A	R5127-A2A	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
5-2A	EMISSION POINTS/ STATIONARY VENTS/ PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
5-2A	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
5-6	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
6-1	COAL PREPARATION PLANT	N/A	60Y-1	40 CFR Part 60, Subpart Y	No changing attributes.
7-1-1	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
7-1-2	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
7-1-3	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
7-1-4	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
7-4	LOADING/UNLOADING OPERATIONS	N/A	R5217A1-Urea	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
7-7	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
9	EMISSION POINTS/ STATIONARY VENTS/ PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
9	EMISSION POINTS/ STATIONARY VENTS/ PROCESS VENTS	N/A	R5127-A2A	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
9-12	LOADING/UNLOADING OPERATIONS	N/A	R5217A1-2	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
9-13	LOADING/UNLOADING OPERATIONS	N/A	R5217A1-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
9-2	LOADING/UNLOADING OPERATIONS	N/A	R5217A1-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
9-2	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
9-5	LOADING/UNLOADING OPERATIONS	N/A	R5217A1-2	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
9-6A	SOLVENT DEGREASING MACHINES	N/A	R5412-1	30 TAC Chapter 115, Degreasing Processes	No changing attributes.
9-7	LOADING/UNLOADING OPERATIONS	N/A	R5217A1-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
9-8	LOADING/UNLOADING OPERATIONS	N/A	R5217A1-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
9-9	LOADING/UNLOADING OPERATIONS	N/A	R5217A1-2	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
F-CSB	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.
F-MB1-A	MINERAL PROCESSING PLANT	N/A	60F-1	40 CFR Part 60, Subpart F	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-601	MINERAL PROCESSING PLANT	601.AS3-6, 601.BE1, 601.SC1, 601.SC2, 601.SC3, 601.SC4, 601.SC5	60F-2(08+)	40 CFR Part 60, Subpart F	No changing attributes.
GRP-COAL74-08	COAL PREPARATION PLANT	6-10A, 6-10B, 6-10C, 6-2, 6-3, 6-5A, 6-5B, 6-6-1, 6-6-2, 6-6A, 6-7, 6-8, 6-9	60Y-1	40 CFR Part 60, Subpart Y	No changing attributes.
GRP-KILN3RECON	PROCESS HEATERS/ FURNACES	442.DR1, 444.CI1, 444.CN1, 444.CN2, 446.KD1	R2112-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
GRP-KILN3RECON	DRYER/KILN/OVEN	442.DR1, 444.CI1, 444.CN1, 444.CN2, 446.KD1	R73100	30 TAC Chapter 117, Cement Kilns	No changing attributes.
GRP-KILN3RECON	MINERAL PROCESSING PLANT	442.DR1, 444.CI1, 444.CN1, 444.CN2, 446.KD1	60F-1(08+)	40 CFR Part 60, Subpart F	No changing attributes.
GRP-KILN3RECON	MINERAL PROCESSING PLANT	442.DR1, 444.CI1, 444.CN1, 444.CN2, 446.KD1	63LLL-1(+09)	40 CFR Part 63, Subpart LLL	No changing attributes.
GRP-PORTHTR1	PROCESS HEATERS/ FURNACES	9-14, 9-15, 9-16, 9-17, 9-18, 9-19, 9-20, 9-21, 9-22, 9-23, 9-24, 9-25, 9-26, 9-27, 9-28, 9-29, 9-30	R2112-2	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
GRP-REVISEDTPS	MINERAL PROCESSING PLANT	443.AS1, 443.BE1, 443.BN3, 447.CH1, 449.CH1, 449.CH2	60F-3(08+)	40 CFR Part 60, Subpart F	No changing attributes.
GRP-VENT1	EMISSION POINTS/ STATIONARY VENTS/ PROCESS VENTS	24, 25, 28, 30, 33, 35, 4, 8	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.



### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
10	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six-minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
11	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six-minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
1-10	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-11A	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-11B	EU	60F-1	§111	40 CFR Part 60,	§ 60.60	The permit holder shall	The permit holder	The permit holder shall	The permit holder shall

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
			Pollutant	Subpart F	The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	comply with the applicable requirements of 40 CFR Part 60, Subpart F	shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-12	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-16	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-16A1	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					Subpart F				
1-16A2	EU	60F-2(08+)	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-18	EU	60000-1	PM	40 CFR Part 60, Subpart OOO	§ 60.672(a)-Table 2 § 60.672(a)	Stack emissions from affected facilities with capture systems (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction after August 31, 1983 but before April 22, 2008, the owner or operator must meet a PM limit of 0.05 g/dscm (0.022 gr/dscf).	§ 60.675(a) § 60.675(b)(1) ** See Periodic Monitoring Summary	None	§ 60.676(f) [G]§ 60.676(i) § 60.676(k)
1-18	EU	60000-1	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(a)-Table 2 § 60.672(a)	Stack emissions from affected facilities with capture systems (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction after August 31, 1983 but before April 22, 2008, the owner or operator must meet an opacity limit of 7 percent for dry control devices.	§ 60.675(a) § 60.675(b)(2) [G]§ 60.675(e)(2) § 60.675(i) ** See Periodic Monitoring Summary	None	§ 60.675(g) § 60.675(i) § 60.676(f) [G]§ 60.676(i) § 60.676(k)
1-19	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder	The permit holder shall comply with the applicable	The permit holder shall comply with	The permit holder shall comply with the	The permit holder shall comply with the

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	requirements of 40 CFR Part 60, Subpart F	the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	applicable reporting requirements of 40 CFR Part 60, Subpart F
1-20	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-21	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-22	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
1-23	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-24	EU	60000-2	Exempt	40 CFR Part 60, Subpart OOO	§ 60.670(d)(1) § 60.670(d)(2)	When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in §60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of §§60.672, 60.674, and 60.675 except as provided for in paragraph (d)(3) of this section.	None	None	§ 60.676(a) [G]§ 60.676(a)(1) [G]§ 60.676(i) § 60.676(k)
1-25	EU	60000-2	Exempt	40 CFR Part 60, Subpart OOO	§ 60.670(d)(1) § 60.670(d)(2)	When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in §60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of §§60.672, 60.674, and 60.675 except as provided for in paragraph (d)(3) of this section.	None	None	§ 60.676(a) [G]§ 60.676(a)(1) [G]§ 60.676(i) § 60.676(k)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
1-25C	EU	60000-2	Exempt	40 CFR Part 60, Subpart OOO	§ 60.670(d)(1) § 60.670(d)(2)	When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in §60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of §§60.672, 60.674, and 60.675 except as provided for in paragraph (d)(3) of this section.	None	None	§ 60.676(a) [G]§ 60.676(a)(3) [G]§ 60.676(i) § 60.676(k)
1-27	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-28	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-29	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and	The permit holder shall comply with the applicable recordkeeping	The permit holder shall comply with the applicable reporting requirements of 40 CFR

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F		testing requirements of 40 CFR Part 60, Subpart F	requirements of 40 CFR Part 60, Subpart F	Part 60, Subpart F
1-2C	EU	60000-2	Exempt	40 CFR Part 60, Subpart OOO	§ 60.670(d)(1) § 60.670(d)(2)	When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in §60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of §§60.672, 60.674, and 60.675 except as provided for in paragraph (d)(3) of this section.	None	None	§ 60.676(a) [G]§ 60.676(a)(3) [G]§ 60.676(i) § 60.676(k)
1-2F	EU	60000-1	PM	40 CFR Part 60, Subpart OOO	§ 60.672(a)-Table 2 § 60.672(a)	Stack emissions from affected facilities with capture systems (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction after August 31, 1983 but before April 22, 2008, the owner or operator must meet a PM limit of 0.05 g/dscm (0.022 gr/dscf).	§ 60.675(a) § 60.675(b)(1) ** See Periodic Monitoring Summary	None	§ 60.676(f) [G]§ 60.676(i) § 60.676(k)
1-2F	EU	60000-1	PM (Opacity)	40 CFR Part 60, Subpart OOO	§ 60.672(a)-Table 2 § 60.672(a)	Stack emissions from affected facilities with capture systems (as defined in §§60.670 and 60.671) that commenced construction, modification,	§ 60.675(a) § 60.675(b)(2) [G]§ 60.675(e)(2) § 60.675(i) ** See Periodic Monitoring	None	§ 60.675(g) § 60.675(i) § 60.676(f) [G]§ 60.676(i) § 60.676(k)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						or reconstruction after August 31, 1983 but before April 22, 2008, the owner or operator must meet an opacity limit of 7 percent for dry control devices.	Summary		
1-30	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-31	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-32	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-33	EU	60F-	§111	40 CFR Part 60,	§ 60.60	The permit holder shall	The permit holder	The permit holder shall	The permit holder shall



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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
		1(08+)	Pollutant	Subpart F	The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	comply with the applicable requirements of 40 CFR Part 60, Subpart F	shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-41	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
1-42	EU	R7403-0	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.403(a)(7)(D) § 117.403(a)	Units exempt from this division, except as specified in §§ 117.440(i), 117.445(f)(4) and (9), 117.450 and 117.454, include stationary gas turbines and stationary internal combustion engines used exclusively in emergency situations, except that operation for testing or maintenance is allowed for up to 100 hours per year, based on a rolling 12-month average. New, modified, reconstructed or relocated stationary diesel engine placed into service on or after June 1, 2007, are ineligible.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.440(i) § 117.445(f)(4)	None
1-42	EU	63ZZZZ-2	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table2d.4	For each existing emergency stationary CI	§ 63.6625(f) § 63.6625(i)	§ 63.6625(i) § 63.6655(d)	§ 63.6640(e) § 63.6650(f)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	
1-46	EU	R7403-1	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.403(a)(8) § 117.403(a) [G]§ 117.410(f)	Units exempt from this division, except as specified in §§117.440(i), 117.445(f)(4) and (9), 117.450 and 117.454, include stationary diesel engines placed into service before June 1, 2007 that operate less than 100 hours/year based on a rolling 12-month average and that has not been modified, reconstructed or relocated on or after June 1, 2007 per §117.403(a)(8)(A)-(B)	None	§ 117.440(i) § 117.445(f)(4) [G]§ 117.445(f)(9)	None
1-46	EU	63ZZZZ-2	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.6640(f)(4) § 63.6640(f)(4)(i)				
1-48	EU	R7410-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.410(c)(1) § 117.410(c)(1)(B) § 117.440(j)	No person shall allow the discharge into the atmosphere from any stationary internal combustion engine carbon monoxide (CO) emissions that exceed 400 ppmv at 3.0% oxygen, dry basis or alternatively, 3.0 g/hp-hr	§ 117.435(a)(1) § 117.435(a)(3) § 117.435(b) § 117.435(d) § 117.440(a)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8140(a) § 117.8140(a)(1) § 117.8140(a)(2) § 117.8140(a)(2)(A) [G]§ 117.8140(a)(2)(B) § 117.8140(b)	§ 117.445(a) § 117.445(f) [G]§ 117.445(f)(3) § 117.445(f)(8) [G]§ 117.445(f)(9)	§ 117.435(f) § 117.445(b) [G]§ 117.445(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
1-48	EU	R7410-1	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter B	§ 117.410(a)(4)(E)(i) § 117.410(a) § 117.410(a)(4)(F) § 117.410(b)(2) [G]§ 117.410(e)(1) § 117.410(e)(2) [G]§ 117.410(e)(3) § 117.410(e)(4) [G]§ 117.410(f) § 117.430(b) § 117.430(b)(7) § 117.440(j)	No person shall allow the discharge from diesel engines, excluding dual-fuel engines, with a horsepower (hp) rating of less than 50 hp that are installed, modified, reconstructed, or relocated on or after March 1, 2009, NO <sub>x</sub> emissions in excess of 5.0 g/hp-hr.	§ 117.435(a)(1) § 117.435(a)(3) § 117.435(b) § 117.435(d) § 117.440(a)(2)(C) § 117.440(k)(1) § 117.440(k)(2) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8140(a) § 117.8140(a)(1) § 117.8140(a)(2)	§ 117.445(a) § 117.445(f) [G]§ 117.445(f)(3) § 117.445(f)(8) [G]§ 117.445(f)(9)	§ 117.435(f) § 117.445(b) [G]§ 117.445(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8140(a)(2)(A) [G]§ 117.8140(a)(2)(B) § 117.8140(b)		
1-48	EU	60IIII-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 37 KW and less than 130 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 5.0 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
1-48	EU	60IIII-1	NMHC and NO <sub>x</sub>	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 37 KW but less than 56 KW and a displacement of less than 10 liters per cylinder and is a 2008 model year and later must comply with an NMHC+NO <sub>x</sub> emission limit of 4.7 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
1-48	EU	60IIII-1	PM (Opacity)	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.105(b)(1)	Owners and operators of non-emergency stationary	None	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 1039.105(b)(2) § 1039.105(b)(3) § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	CI ICE with a displacement of less than 10 liters per cylinder and is not a constant-speed engine and is a 2007 model year and later must comply with the following opacity emission limits: 20% during the acceleration mode, 15% during the lugging mode, and 50% during the peaks in either the acceleration or lugging modes as stated in 40 CFR 60.4201(a)-(c) and 40 CFR 89.113(a)(1)-(3) and 40 CFR 1039.105(b)(1)-(3).			
1-48	EU	60III-1	PM	40 CFR Part 60, Subpart III	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 19 kW and less than 56 kW and a displacement of less than 10 liters per cylinder and is a 2008 - 2012 model year must comply with a PM emission limit of 0.30 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102.	None	None	None
1-48	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements	None	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
1-6C	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-6D	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
1-9A	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					CFR Part 60, Subpart F				
1-9B	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
2-10	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
2-11	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
2-6A	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					and/or equipment specification requirements of 40 CFR Part 60, Subpart F		requirements of 40 CFR Part 60, Subpart F	Part 60, Subpart F	
2-6B	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
27	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
2-9	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
3-10	EU	63LLL-CLK PILE	112(B) HAPS	40 CFR Part 63, Subpart LLL	§ 63.1340(a) The permit holder	The permit holder shall comply with the applicable	The permit holder shall comply with	The permit holder shall comply with the	The permit holder shall comply with the



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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart LLL	requirements of 40 CFR Part 63, Subpart LLL	the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart LLL	applicable recordkeeping requirements of 40 CFR Part 63, Subpart LLL	applicable reporting requirements of 40 CFR Part 63, Subpart LLL
3-14	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
3-15	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
32	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
443.SK1	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six-minute period for any source on which construction was begun after January 31, 1972.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F) **See Alternative Requirements	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
444.DC2	EU	60F-2(08+)	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
446.EG1	EU	R7403-2	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.403(a)(9) § 117.403(a) [G]§ 117.410(f)	Units exempt from this division, except as specified in §§ 117.440(i), 117.445(f)(4) and (9), 117.450 and 117.454, include new, modified, reconstructed or relocated diesel engines placed into service on or after June 1, 2007 that operate less than 100 hr/yr except in emergency situations and that meet the emission standard for non-road engines listed in 40 CFR § 89.112(a), Table 1 in effect at the time of installation, modification, reconstruction or relocation per § 117.403(a)(9)(A)-(B)	None	§ 117.440(i) § 117.445(f)(4) [G]§ 117.445(f)(9)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
446.EG1	EU	60III-2	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	None	None	[G]§ 60.4214(d)
446.EG1	EU	60III-2	NMHC and NO <sub>x</sub>	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 75 KW and less than or equal to 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NO <sub>x</sub> emission limit of 4.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	None	None	[G]§ 60.4214(d)
446.EG1	EU	60III-2	PM (Opacity)	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Emergency stationary CI ICE, that are not fire pump engines, with displacement < 10 lpc and not constant-speed engines, with max engine power < 2237 KW and a 2007 model year and	None	None	[G]§ 60.4214(d)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4218 § 89.113(a)(1) § 89.113(a)(2) § 89.113(a)(3)	later or max engine power > 2237 KW and a 2011 model year and later, must comply with following opacity emission limits: 20% during acceleration, 15% during lugging, 50% during peaks in either acceleration or lugging modes as stated in §60.4202(a)(1)-(2), (b)(2) and §89.113(a)(1)-(3) and §1039.105(b)(1)-(3).			
446.EG1	EU	60III-2	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	None	None	[G]§ 60.4214(d)
446.EG1	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition	None	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
44B.BC1	EU	60Y-1(08+)	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.254(b)(1) § 60.254(b) § 60.255(c) § 60.257(a)	Except as provided in paragraph (b)(3) of this section, an owner or operator of any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified after April 28, 2008 must not cause to be discharged into the atmosphere from the affected facility any gases which exhibit 10 percent opacity or greater.	§ 60.255(b) [G]§ 60.255(b)(2) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(2) [G]§ 60.257(a)(3)	§ 60.258(a) § 60.258(a)(1) § 60.258(a)(2) § 60.258(a)(3) § 60.258(a)(4)	§ 60.258(b) § 60.258(b)(3) § 60.258(c) § 60.258(d)
44B.BC2	EU	60Y-1(08+)	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.254(b)(1) § 60.254(b) § 60.255(c) § 60.257(a)	Except as provided in paragraph (b)(3) of this section, an owner or operator of any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified after April 28, 2008 must not cause to be discharged into the atmosphere from the affected facility any gases which exhibit 10 percent opacity or greater.	§ 60.255(b) [G]§ 60.255(b)(2) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(2) [G]§ 60.257(a)(3)	§ 60.258(a) § 60.258(a)(1) § 60.258(a)(2) § 60.258(a)(3) § 60.258(a)(4)	§ 60.258(b) § 60.258(b)(3) § 60.258(c) § 60.258(d)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
44B.BN1	EU	60Y-1(08+)	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.254(b)(1) § 60.254(b) § 60.255(c) § 60.257(a)	Except as provided in paragraph (b)(3) of this section, an owner or operator of any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified after April 28, 2008 must not cause to be discharged into the atmosphere from the affected facility any gases which exhibit 10 percent opacity or greater.	§ 60.255(b) [G]§ 60.255(b)(2) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(3)	§ 60.258(a) § 60.258(a)(1) § 60.258(a)(2) § 60.258(a)(3) § 60.258(a)(4)	§ 60.258(b) § 60.258(b)(3) § 60.258(c) § 60.258(d)
44B.BN2	EU	60Y-1(08+)	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.254(b)(1) § 60.254(b) § 60.255(c) § 60.257(a)	Except as provided in paragraph (b)(3) of this section, an owner or operator of any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified after April 28, 2008 must not cause to be discharged into the atmosphere from the affected facility any gases which exhibit 10 percent opacity or greater.	§ 60.255(b) [G]§ 60.255(b)(2) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(3)	§ 60.258(a) § 60.258(a)(1) § 60.258(a)(2) § 60.258(a)(3) § 60.258(a)(4)	§ 60.258(b) § 60.258(b)(3) § 60.258(c) § 60.258(d)
44B.DG1	EU	60Y-1(08+)	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.254(b)(1) § 60.254(b) § 60.255(c) § 60.257(a)	Except as provided in paragraph (b)(3) of this section, an owner or operator of any coal processing and conveying equipment, coal storage	§ 60.255(b) [G]§ 60.255(b)(2) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(2) [G]§ 60.257(a)(3)	§ 60.258(a) § 60.258(a)(1) § 60.258(a)(2) § 60.258(a)(3) § 60.258(a)(4)	§ 60.258(b) § 60.258(b)(3) § 60.258(c) § 60.258(d)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						system, or coal transfer and loading system processing coal constructed, reconstructed, or modified after April 28, 2008 must not cause to be discharged into the atmosphere from the affected facility any gases which exhibit 10 percent opacity or greater.			
44B.MR1	EU	60Y-3(09+)	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.252(b)(1)(i)(B) § 60.252(b) § 60.252(b)(1)(i) § 60.257(a)	An owner or operator of a thermal dryer constructed, or reconstructed after April 28, 2008, must not cause to be discharged into the atmosphere from the thermal dryer any gases that exhibit 10 percent opacity or greater.	§ 60.255(b) [G]§ 60.255(b)(2) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(3) § 60.257(b)(3) § 60.257(b)(4)	§ 60.258(a) § 60.258(a)(1) § 60.258(a)(2) § 60.258(a)(3) § 60.258(a)(4)	§ 60.258(b) § 60.258(b)(3) § 60.258(c) § 60.258(d)
44B.MR1	EU	60Y-3(09+)	PM	40 CFR Part 60, Subpart Y	§ 60.252(b)(1)(i)(A) § 60.252(b) § 60.252(b)(1)(i) [G]§ 60.255(e)	An owner or operator of a thermal dryer constructed, or reconstructed after April 28, 2008 must not cause to be discharged into the atmosphere from the thermal dryer any gases that contain PM in excess of 0.023 g/dscm (0.010 grains per dry standard cubic feet (gr/dscf)).	§ 60.255(b) § 60.255(b)(1) § 60.255(b)(1)(i) § 60.255(b)(1)(ii) § 60.255(b)(1)(iii) § 60.257(b) § 60.257(b)(1) § 60.257(b)(2) § 60.257(b)(3) § 60.257(b)(4) [G]§ 60.257(b)(5)	§ 60.258(a) § 60.258(a)(1) § 60.258(a)(10) § 60.258(a)(3) § 60.258(a)(4)	§ 60.258(b) § 60.258(b)(2) § 60.258(c) § 60.258(d)
44B.SK1	EP	R5127-A2A	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100 pounds in any continuous 24-hour period is exempt from §115.121(a)(1) of this title.	§ 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5) § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
44B.SK1	EP	R5127-A2A	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in §115.121(a)(1) of this title with a concentration of VOC less than 612 parts per million by volume (ppmv) is exempt from §115.121(a)(1) of this title.	§ 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5) § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
4-5	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
4-6	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
5	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
5	EP	R5127-A2A	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100 pounds in any continuous	§ 115.125 § 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5)	§ 115.126 § 115.126(2) § 115.126(4)	None



### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						24-hour period is exempt from §115.121(a)(1) of this title.	§ 115.126(2)		
5	EP	R5127-A2A	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in §115.121(a)(1) of this title with a concentration of VOC less than 612 parts per million by volume (ppmv) is exempt from §115.121(a)(1) of this title.	§ 115.125 § 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5) § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
5-2A	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six-minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
5-2A	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
5-6	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60,	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					Subpart F				
6-1	EU	60Y-1	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.254(a) § 60.257(a)	On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.	§ 60.255(a) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(3) ** See Periodic Monitoring Summary	None	None
7-1-1	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
7-1-2	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
7-1-3	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						1.5 psia is exempt from the requirements of this division.			
7-1-4	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7)	None
7-4	EU	R5217A1-Urea	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
7-7	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
9	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
9	EP	R5127-A2A	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100 pounds in any continuous	§ 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5) § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						24-hour period is exempt from §115.121(a)(1) of this title.			
9	EP	R5127-A2A	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream specified in §115.121(a)(1) of this title with a concentration of VOC less than 612 parts per million by volume (ppmv) is exempt from §115.121(a)(1) of this title.	§ 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5) § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
9-12	EU	R5217A1-2	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
9-13	EU	R5217A1-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
9-2	EU	R5217A1-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
9-2	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
9-5	EU	R5217A1-2	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
9-6A	EU	R5412-1	VOC	30 TAC Chapter 115, Degreasing Processes	§ 115.412(1) § 115.411(1) § 115.411(2) [G]§ 115.412(1)(A) § 115.412(1)(C) § 115.412(1)(D) [G]§ 115.412(1)(F)	No person shall own or operate a system utilizing a VOC for the cold solvent cleaning of objects without the controls listed in §115.412(1)(A)-(F), except as exempted in §115.411.	[G]§ 115.415(1) § 115.415(3) ** See Periodic Monitoring Summary	§ 115.416 § 115.416(4) § 115.416(4)(A) § 115.416(4)(B)	None
9-7	EU	R5217A1-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
9-8	EU	R5217A1-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) §	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					115.214(a)(1)(D)(i)	than 0.5 psia is exempt from the requirements of this division, except as specified.			
9-9	EU	R5217A1-2	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
F-CSB	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
F-MB1-A	EU	60F-1	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
GRP-601	EU	60F-2(08+)	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and	The permit holder shall comply with the applicable recordkeeping	The permit holder shall comply with the applicable reporting requirements of 40 CFR

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F		testing requirements of 40 CFR Part 60, Subpart F	requirements of 40 CFR Part 60, Subpart F	Part 60, Subpart F
GRP-COAL74-08	EU	60Y-1	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.254(a) § 60.257(a)	On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.	§ 60.255(a) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(2) [G]§ 60.257(a)(3) ** See Periodic Monitoring Summary	None	§ 60.258(c) § 60.258(d)
GRP-KILN3 RECON	EU	R2112-1	SO <sub>2</sub>	30 TAC Chapter 112, Sulfur Compounds	§ 112.9(a)	No person may cause, suffer, allow, or permit emissions of SO <sub>2</sub> from any liquid fuel-fired steam generator, furnace, or heater to exceed 440 ppmv at actual stack conditions and averaged over 3-hours.	§ 112.2(a) ** See Periodic Monitoring Summary	§ 112.2(c)	§ 112.2(b)
GRP-KILN3 RECON	EU	R73100	NO <sub>x</sub>	30 TAC Chapter 117, Cement Kilns	§ 117.3100 The permit holder shall comply with the applicable limitation, standard and/or equipment	The permit holder shall comply with the applicable requirements of 30 TAC Chapter 117, Cement Kilns	The permit holder shall comply with the applicable monitoring and testing requirements of 30	The permit holder shall comply with the applicable recordkeeping requirements of 30 TAC Chapter 117, Cement	The permit holder shall comply with the applicable reporting requirements of 30 TAC Chapter 117, Cement Kilns

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					specification requirements of 30 TAC Chapter 117, Cement Kilns		TAC Chapter 117, Cement Kilns	Kilns	
GRP-KILN3 RECON	EU	R73100	NH <sub>3</sub>	30 TAC Chapter 117, Cement Kilns	§ 117.3100 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 30 TAC Chapter 117, Cement Kilns	The permit holder shall comply with the applicable requirements of 30 TAC Chapter 117, Cement Kilns	The permit holder shall comply with the applicable monitoring and testing requirements of 30 TAC Chapter 117, Cement Kilns	The permit holder shall comply with the applicable recordkeeping requirements of 30 TAC Chapter 117, Cement Kilns	The permit holder shall comply with the applicable reporting requirements of 30 TAC Chapter 117, Cement Kilns
GRP-KILN3 RECON	EU	60F-1(08+)	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
GRP-KILN3 RECON	EU	63LLL-1(+09)	112(B) HAPS	40 CFR Part 63, Subpart LLL	§ 63.1340(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart LLL
GRP-PORTHTR1	EU	R2112-2	SO <sub>2</sub>	30 TAC Chapter 112, Sulfur Compounds	§ 112.9(a) § 112.9(b)	No person may cause, suffer, allow, or permit emissions of SO <sub>2</sub> from any	§ 112.2(a) ** See Periodic Monitoring	§ 112.2(c)	§ 112.2(b)



### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						liquid fuel-fired steam generator, furnace, or heater to exceed 440 ppmv at actual stack conditions and averaged over 3-hours.	Summary		
GRP-REVISED TPS	EU	60F-3(08+)	§111 Pollutant	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
GRP-VENT1	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

**Additional Monitoring Requirements**

**Periodic Monitoring Summary ..... 56**

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 10	
Control Device ID No.: C10	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: See Periodic Monitoring text	
Averaging Period: N/A	
Deviation Limit: Visible emissions unless a Method 9 observation is conducted within 24 hours of observing emissions and opacity limit exceeds 20%.	
<p>Periodic Monitoring Text: The permit holder shall conduct a monthly 10-minute visible emissions test of the affected source in accordance with Method 22 of Appendix A to part 60 while the affected source is in operation. If no visible emissions are observed in six consecutive monthly tests for any affected source, the permit holder may decrease the frequency of testing from monthly to semi-annually for that affected source. If visible emissions are observed during any semi-annual test, the permit holder must resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests. All visible emission observations shall be recorded.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder shall conduct 30 minutes of opacity observations, recorded at 15-second intervals, in accordance with Method 9 of appendix A to part 60. The Method 9 test must begin within 24 hours of any observation of visible emissions if the source is not removed from service. Any monitoring data indicating opacity greater than 30% shall be reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 11	
Control Device ID No.: C11	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: See Periodic Monitoring text	
Averaging Period: N/A	
Deviation Limit: Visible emissions unless a Method 9 observation is conducted within 24 hours of observing emissions and opacity limit exceeds 20%.	
<p>Periodic Monitoring Text: The permit holder shall conduct a monthly 10-minute visible emissions test of the affected source in accordance with Method 22 of Appendix A to part 60 while the affected source is in operation. If no visible emissions are observed in six consecutive monthly tests for any affected source, the permit holder may decrease the frequency of testing from monthly to semi-annually for that affected source. If visible emissions are observed during any semi-annual test, the permit holder must resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests. All visible emission observations shall be recorded.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder shall conduct 30 minutes of opacity observations, recorded at 15-second intervals, in accordance with Method 9 of appendix A to part 60. The Method 9 test must begin within 24 hours of any observation of visible emissions if the source is not removed from service. Any monitoring data indicating opacity greater than 30% shall be reported as a deviation.</p>	

## Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 1-18	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60000-1
Pollutant: PM	Main Standard: § 60.672(a)-Table 2
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
<p>Deviation Limit: If visible emissions (VE) are observed, report a deviation. Alternatively, determine the opacity (Test Method 9) no more than 24 hours after observing VE. If the result of the Test Method 9 is an opacity above 7 percent, report a deviation.</p>	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 1-18	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60000-1
Pollutant: PM (Opacity)	Main Standard: § 60.672(a)-Table 2
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per week	
Averaging Period: n/a	
<p>Deviation Limit: If visible emissions (VE) are observed, report a deviation. Alternatively, determine the opacity (Test Method 9) no more than 24 hours after observing VE. If the result of the Test Method 9 is an opacity above 7 percent, report a deviation.</p> <p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 1-2F	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60000-1
Pollutant: PM	Main Standard: § 60.672(a)-Table 2
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
<p>Deviation Limit: If visible emissions (VE) are observed, report a deviation. Alternatively, determine the opacity (Test Method 9) no more than 24 hours after observing VE. If the result of the Test Method 9 is an opacity above 7 percent, report a deviation.</p>	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 1-2F	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60000-1
Pollutant: PM (Opacity)	Main Standard: § 60.672(a)-Table 2
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per week	
Averaging Period: n/a	
<p>Deviation Limit: If visible emissions (VE) are observed, report a deviation. Alternatively, determine the opacity (Test Method 9) no more than 24 hours after observing VE. If the result of the Test Method 9 is an opacity above 7 percent, report a deviation.</p> <p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	



### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 5	
Control Device ID No.: C5	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: See Periodic Monitoring text	
Averaging Period: N/A	
Deviation Limit: Visible emissions unless a Method 9 observation is conducted within 24 hours of observing emissions and opacity limit exceeds 30%.	
<p>Periodic Monitoring Text: The permit holder shall conduct a monthly 10-minute visible emissions test of the affected source in accordance with Method 22 of Appendix A to part 60 while the affected source is in operation. If no visible emissions are observed in six consecutive monthly tests for any affected source, the permit holder may decrease the frequency of testing from monthly to semi-annually for that affected source. If visible emissions are observed during any semi-annual test, the permit holder must resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests. All visible emission observations shall be recorded.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder shall conduct 30 minutes of opacity observations, recorded at 15-second intervals, in accordance with Method 9 of appendix A to part 60. The Method 9 test must begin within 24 hours of any observation of visible emissions if the source is not removed from service. Any monitoring data indicating opacity greater than 30% shall be reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 5-2A	
Control Device ID No.: C5-2A	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: See Periodic Monitoring text	
Averaging Period: N/A	
Deviation Limit: Visible emissions unless a Method 9 observation is conducted within 24 hours of observing emissions and opacity limit exceeds 20%.	
<p>Periodic Monitoring Text: The permit holder shall conduct a monthly 10-minute visible emissions test of the affected source in accordance with Method 22 of Appendix A to part 60 while the affected source is in operation. If no visible emissions are observed in six consecutive monthly tests for any affected source, the permit holder may decrease the frequency of testing from monthly to semi-annually for that affected source. If visible emissions are observed during any semi-annual test, the permit holder must resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests. All visible emission observations shall be recorded.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder shall conduct 30 minutes of opacity observations, recorded at 15-second intervals, in accordance with Method 9 of appendix A to part 60. The Method 9 test must begin within 24 hours of any observation of visible emissions if the source is not removed from service. Any monitoring data indicating opacity greater than 30% shall be reported as a deviation.</p>	

## Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 6-1	
Control Device ID No.: 23	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Y	SOP Index No.: 60Y-1
Pollutant: PM (Opacity)	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per week	
Averaging Period: n/a	
<p>Deviation Limit: If visible emissions (VE) are observed, report a deviation. Alternatively, determine the opacity (Test Method 9) no more than 24 hours after observing VE. If the result of the Test Method 9 is an opacity 20 percent or greater, report a deviation.</p> <p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 9	
Control Device ID No.: C9	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: See Periodic Monitoring text	
Averaging Period: N/A	
Deviation Limit: Visible emissions unless a Method 9 observation is conducted within 24 hours of observing emissions and opacity limit exceeds 30%.	
<p>Periodic Monitoring Text: The permit holder shall conduct a monthly 10-minute visible emissions test of the affected source in accordance with Method 22 of Appendix A to part 60 while the affected source is in operation. If no visible emissions are observed in six consecutive monthly tests for any affected source, the permit holder may decrease the frequency of testing from monthly to semi-annually for that affected source. If visible emissions are observed during any semi-annual test, the permit holder must resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests. All visible emission observations shall be recorded.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder shall conduct 30 minutes of opacity observations, recorded at 15-second intervals, in accordance with Method 9 of appendix A to part 60. The Method 9 test must begin within 24 hours of any observation of visible emissions if the source is not removed from service. Any monitoring data indicating opacity greater than 30% shall be reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 9-6A	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Degreasing Processes	SOP Index No.: R5412-1
Pollutant: VOC	Main Standard: § 115.412(1)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Monthly	
Averaging Period: n/a	
Deviation Limit: Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of 115.412(1)(A)-(F) shall be considered and reported as a deviation.	
Periodic Monitoring Text: Inspect equipment and record data monthly to ensure compliance with any applicable requirements in § 115.412(1)(A)-(F). Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of § 115.412(1)(A)-(F) shall be considered and reported as a deviation.	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-COAL74-08	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Y	SOP Index No.: 60Y-1
Pollutant: PM (Opacity)	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six-minutes	
Deviation Limit: 20 percent opacity, or greater.	
Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings above the deviation limit shall be reported as a deviation.	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-KILN3RECON	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R2112-1
Pollutant: SO <sub>2</sub>	Main Standard: § 112.9(a)
Monitoring Information	
Indicator: SO <sub>2</sub> Concentration	
Minimum Frequency: Four times per hour	
Averaging Period: Hourly	
Deviation Limit: Sulfur dioxide emissions less than or equal to 440 ppmv at stack conditions (3-hour avg.) when burning liquid fuel.	
<p>Periodic Monitoring Text: Measure and record the concentration of SO<sub>2</sub> in the exhaust stream of the control device with a continuous emission monitoring system (CEMS). In addition, measure and record the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be operated in accordance with 40 CFR § 60.13 and the Performance Specifications of 40 CFR Part 60, Appendix B. The maximum sulfur dioxide concentration (specified in units of the underlying applicable requirement) is the corresponding sulfur dioxide limit associated with the emission limitation in the underlying applicable requirement. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-PORTHTR1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R2112-2
Pollutant: SO <sub>2</sub>	Main Standard: § 112.9(a)
Monitoring Information	
Indicator: Sulfur Content of Fuel	
Minimum Frequency: Quarterly and within 24 hours of any fuel change	
Averaging Period: n/a	
Deviation Limit: Maximum fuel sulfur content shall not exceed 13,400 ppmw (1.34 wt percent).	
Periodic Monitoring Text: Measure and record the sulfur content of the fuel. Any monitoring data above the deviation limit shall be considered and reported as a deviation.	



### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-VENT1	
Control Device ID No.: C24	Control Device Type: Fabric Filter
Control Device ID No.: C25	Control Device Type: Fabric Filter
Control Device ID No.: C28	Control Device Type: Fabric Filter
Control Device ID No.: C29	Control Device Type: Fabric Filter
Control Device ID No.: C30	Control Device Type: Fabric Filter
Control Device ID No.: C33	Control Device Type: Fabric Filter
Control Device ID No.: C35	Control Device Type: Fabric Filter
Control Device ID No.: C4	Control Device Type: Fabric Filter
Control Device ID No.: C8	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
<p>Deviation Limit: If visible emissions (VE) are observed, report a deviation. Alternatively, determine the opacity, consistent with Test Method 9, no later than 24 hours after observing VE. If a Test Method 9 is performed, the opacity limit is 30 percent.</p>	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p>	
<p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

**Permit Shield**

**Permit Shield ..... 72**

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
1-42	N/A	40 CFR Part 60, Subpart IIII	Engine construction/reconstruction commenced prior to July 11, 2005.
1-46	N/A	40 CFR Part 60, Subpart IIII	Engine construction commenced prior to July 11, 2005.
6-11	N/A	40 CFR Part 60, Subpart Y	The trucks and front-end loaders associated with the material transfer operations are not considered coal processing equipment and thus are not affected facilities under NSPS Subpart Y requirements.
6-13	N/A	40 CFR Part 60, Subpart Y	The trucks and front-end loaders associated with the material transfer operations are not considered coal processing equipment and thus are not affected facilities under NSPS Subpart Y requirements.
6-14	N/A	40 CFR Part 60, Subpart Y	The truck dumps associated with material transfer operations do not occur at any machinery and therefore are not considered coal processing equipment and thus are not affected facilities under NSPS Y.
6-4A	N/A	40 CFR Part 60, Subpart Y	Open storage pile that was constructed after October 27, 1974 and before April 28, 2008, and is not an affected facility per 60.251(h).
6-4C	N/A	40 CFR Part 60, Subpart Y	Open storage pile that was constructed after October 27, 1974 and before April 28, 2008, and is not an affected facility per 60.251(h).
6-4D	N/A	40 CFR Part 60, Subpart Y	Open storage pile that was constructed after October 27, 1974 and before April 28, 2008, and is not an affected facility per 60.251(h).
7-1-1	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than or equal to 75 cubic meters, less than 151 cubic meters, and vapor pressure is less than 15 psia.
7-1-2	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than or equal to 75 cubic meters, less than 151 cubic meters, and vapor pressure is less than 15 psia.
7-1-3	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than or equal to 75 cubic meters, less than 151 cubic meters, and vapor pressure is less than 15 psia.
7-1-4	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is greater than or equal to 75 cubic meters, less than 151 cubic meters, and vapor pressure is less than 15 psia.

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
7-7	N/A	40 CFR Part 60, Subpart Kb	Capacity is less than 75 cubic meters (19,800 gal).
9-10	N/A	40 CFR Part 63, Subpart Q	No chromium based chemicals.
9-12	N/A	30 TAC Chapter 115, Storage of VOCs	Capacity is less than 1,000 gallons.
9-12	N/A	40 CFR Part 60, Subpart Kb	Capacity is less than 75 cubic meters (19,800 gal).
9-13	N/A	30 TAC Chapter 115, Storage of VOCs	Capacity is less than 1,000 gallons.
9-13	N/A	40 CFR Part 60, Subpart Kb	Capacity is less than 75 cubic meters (19,800 gal).
9-2	N/A	40 CFR Part 60, Subpart Kb	Capacity is less than 75 cubic meters (19,800 gal)
9-3	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Motor vehicle fuel dispensing facilities, as defined in §101.1 of this title (relating to Definitions), are exempt from the requirements of this division.
9-3	N/A	30 TAC Chapter 115, Storage of VOCs	Capacity is less than 25,000 gallons.
9-3	N/A	40 CFR Part 60, Subpart Kb	Capacity is less than 75 cubic meters (19,800 gal)
9-5	N/A	30 TAC Chapter 115, Storage of VOCs	Capacity is less than 1,000 gallons.
9-5	N/A	40 CFR Part 60, Subpart Kb	Capacity is less than 75 cubic meters (19,800 gal).
9-7	N/A	30 TAC Chapter 115, Storage of VOCs	Capacity is less than 1,000 gallons.
9-7	N/A	40 CFR Part 60, Subpart Kb	Capacity less than 75 cubic meters (19,800 gal).
9-8	N/A	30 TAC Chapter 115, Storage of VOCs	Capacity is less than 1,000 gallons.
9-8	N/A	40 CFR Part 60, Subpart Kb	Capacity less than 75 cubic meters (19,800 gal).
9-9	N/A	30 TAC Chapter 115, Storage of VOCs	Capacity is less than 1,000 gallons.
9-9	N/A	40 CFR Part 60, Subpart Kb	Capacity less than 75 cubic meters (19,800 gal).

**New Source Review Authorization References**

<b>New Source Review Authorization References .....</b>	<b>75</b>
<b>New Source Review Authorization References by Emission Unit .....</b>	<b>76</b>

### New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

<b>Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.</b>	
Authorization No.: 1	Issuance Date: 01/15/2019
Authorization No.: 140713	Issuance Date: 06/29/2016
<b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>	
Number: 106.144	Version No./Date: 09/04/2000
Number: 106.146	Version No./Date: 09/04/2000
Number: 106.181	Version No./Date: 11/01/2001
Number: 106.183	Version No./Date: 09/04/2000
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.265	Version No./Date: 09/04/2000
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.373	Version No./Date: 09/04/2000
Number: 106.393	Version No./Date: 09/04/2000
Number: 106.433	Version No./Date: 09/04/2000
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 06/13/2001
Number: 106.532	Version No./Date: 09/04/2000
Number: 106.533	Version No./Date: 09/01/1999
Number: 7	Version No./Date: 11/05/1986
Number: 51	Version No./Date: 03/15/1985
Number: 51	Version No./Date: 08/30/1988
Number: 51	Version No./Date: 04/05/1995
Number: 51	Version No./Date: 10/04/1995
Number: 53	Version No./Date: 09/12/1989
Number: 53	Version No./Date: 10/04/1995
Number: 107	Version No./Date: 04/05/1995

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
10	CEMENT STORAGE SILO 1 BAGHOUSE STACK	1
1-10	SLAG HOPPER	1
1-11A	TRANSFER TO SLAG BELT 1	1
1-11B	TRANSFER TO SLAG ELEV.	1
1-12	SLAG SYSTEM BH VENT	1
1-16A1	TRANSFER SILO TO WEIGH CONVEYOR	1
1-16A2	SLAG/MILL SCALE SILO 3 WEIGH BELT - DRAG CONV TP	1
1-16	SLAG SILO 3	1
1-18	NO. 1 QUARRY BELT TRANSFER POINT	1
1-19	LIMESTONE DAY TANK	1
11	CEMENT STORAGE SILO 2 BAGHOUSE STACK	1
1-20	NO. 1 RAW MILL LIMESTONE BELT TRANSFER POINT	1
1-21	NO. 1 RAW MILL CONVEYOR TRANSFER POINT	1
1-22	NO.2 RAW MILL LIMESTONE BELT TRANSFER POINT	1
1-23	NO.2 RAW MILL CONVEYOR TRANSFER POINT	1
1-24	STAMLER FEEDER	1
1-25C	NO. 6 QUARRY BELT TRANSFER POINT TO ROLL CRUSHER	1
1-25	ROLL CRUSHER	1
1-27	LIMESTONE TRANSFER ONTO INSIDE LS STORAGE PILE	1
1-28	LIMESTONE FEED HOPPER/ INLINE CONVEYOR	1
1-29	LIMESTONE BIN	1

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
1-2C	NO. 2 QUARRY BELT TRANSFER POINT	1
1-2F	NO. 6 QUARRY BELT TRANSFER POINT	1
1-30	T.P. LIMESTONE TO FM COLLECTION BELT 1	1
1-31	T.P. LIMESTONE TO FM COLLECTION BELT 2	1
1-32	CLINKER RECLAIM TRANSFER POINT	1
1-33	IRON SOURCE STOCKPILE	1
1-41	QUARRY DIESEL TANK	106.472/09/04/2000
1-42	QUARRY FIREFIGHTING PUMP ENGINE	106.511/09/04/2000
1-46	FIREFIGHTING/BACKUP WATER CIRCULATION PUMP ENGINE	106.511/09/04/2000
1-48	QUARRY DIESEL PUMP ENGINE	106.512/06/13/2001
1-6C	T.P. GYPSUM CONVEYOR DUST COLLECTOR	1
1-6D	T.P. CONV. TO SILO 2 DUST COLLECTOR	1
1-9A	SLAG TRUCK UNLOADING	1
1-9B	SLAG STOCKPILE	1
2-10	CKD SILO 3 TRUCK SPOUT DUST COLL	106.144/09/04/2000
2-11	CKD SILO 3 PUG MILL LOAD OUT T.P.	106.146/09/04/2000
24	CEMENT LOADING (RAIL) BAGHOUSE STACK	1
25	CEMENT LOADING (TRUCK) BAGHOUSE STACK	1
2-6A	CKD PUG MILL	1
2-6B	FUG. FROM PUG MILL OUTPUT	1
27	CLINKER STACKER DUST COLL.	1



### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
28	CLINKER FEEDER DUST COLLECTOR	1
2-9	CKD SILO 3 AND PUG MILL DUST COLL	106.144/09/04/2000, 106.146/09/04/2000
30	CLINKER FEEDER DUST COLLECTOR	1
3-10	OUTSIDE CLINKER STORAGE PILE	1
3-14	CLINKER RECLAIM HOPPER 3	1
3-15	CLINKER RECLAIM DUST COLL.	1
32	CKD TANK 1 BAGHOUSE STACK	1
33	CKD TANK 2 BAGHOUSE STACK	1
35	CEMENT LOADING (SPECIAL) BAGHOUSE STACK	1
442.DR1	NO. 3 CEMENT KILN DRYER CRUSHER	1
443.AS1	PNEUMATIC CKD CONVEYOR TO CKD BIN TP (& BH)	1
443.BE1	CKD BUCKET ELEVATOR TO CKD BIN TP (& BH)	1
443.BN3	CKD BIN TO PNEUMATIC CKD CONVEYOR TP (& BH)	1
443.SK1	RECONSTRUCTED NO. 3 CEMENT KILN STACK	1
444.CI1	NO. 3 CEMENT KILN PRECALCINER	1
444.CN1	NO. 3 CEMENT KILN PREHEATER CYCLONE	1
444.CN2	NO. 3 CEMENT KILN PRECALCINER CYCLONE	1
444.DC2	SLAG/MILL SCALE DRAG CONVEYOR TO KILN RISER TP	1
446.EG1	EMERGENCY DIESEL GENERATOR	1
446.KD1	RECONSTRUCTED NO. 3 CEMENT KILN	1
447.CH1	CLK COOLER TO CLK COOLER BELT 449.DB1 TP (& BH)	1

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
449.CH1	CLK COOL BLT 449.DB1 TO CLK ELEV BLT 1 TP (& BH)	1
449.CH2	CLK COOL BLT 449.DB1 TO CLK ELEV BLT 2 TP (& BH)	1
44B.BC1	SOLID FUEL DAY TNK CNV TPS TO SOLID FUEL BLT BC050	1
44B.BC2	SOLID FUEL BLT BC050 TO SOLID FUEL BLT BC080 TP	1
44B.BN1	PULVERIZED FUEL BIN A VENT	1
44B.BN2	PULVERIZED FUEL BIN B VENT	1
44B.DG1	SOLID FUEL BLT CONV BC080 TO SOLID FUEL MILL TP	1
44B.MR1	SOLID FUEL MILL	1
44B.SK1	SOLID FUEL MILL STACK	1
4-5	TP FROM GYPSUM WEIGH CONVEYOR 1 (& BH)	1
4-6	TP FROM GYPSUM WEIGH CONVEYOR 3 (& BH)	1
4	NO. 1 CLINKER ELEVATOR 1, SILOS 1 & 2 BH STACK	1
5-2A	CEMENT STORAGE SILOS 3	1
5-6	CEMENT RAILCAR UNLOADING	1
5	FINISH MILL 1 STACK	1
601.AS3-6	CEMENT SILO XFER SYSTEM AIR SLIDES TPS (&BH)	1
601.BE1	TP FROM CEMENT SILO XFER SYSTEM BUCKET ELEV (&BH)	1
601.SC1	TPS TO/FR CEMENT RAILCAR GATHER SCREW CONV 1 (&BH)	1
601.SC2	TP FROM CEMENT RAILCAR UNLOAD SCREW CONV 2 (&BH)	1
601.SC3	TP FROM CEMENT RAILCAR UNLOAD SCREW CONV 3 (&BH)	1
601.SC4	TPS TO/FR CEMENT SILO XFER SYS SCREW CONV 4 (&BH)	1

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
601.SC5	TP FROM CEMENT SILO XFER SYSTEM SCREW CONV 5 (&BH)	1
6-10A	SOLID FUEL DAY TANK TO SOLID FUEL MILL CONVEYOR A	1
6-10B	SOLID FUEL DAY TANK TO SOLID FUEL MILL CONVEYOR B	1
6-10C	SOLID FUEL DAY TANK TO SOLID FUEL MILL CONVEYOR C	1
6-11	RESERVE SOLID FUEL TRANSFER POINT (MAIN STOCKPILE)	1
6-13	RESERVE SOLID FUEL RECLAIM. TP (RESERVE STOCKPILE)	1
6-14	RESERVE SOLID FUEL RECLAIM. TP (MAIN STOCKPILE)	1
6-1	SOLID FUEL RAIL CAR UNLOADING	1
6-2	COAL UNLOADING CONVEYOR BELT	1
6-3	SOLID FUEL STACKER CONV.	1
6-4A	SOLID FUEL STORAGE AREA TRUCK UNLOADING	1
6-4C	SOLID FUEL DROP FROM FRONT END LOADER TO STOCKPILE	1
6-4D	SOLID FUEL STACKERPILE MOVEMENT	1
6-5A	COKE RECLAIM HOPPER	1
6-5B	COAL RECLAIM HOPPER	1
6-6-1	COKE RECLAIM CONVEYOR	1
6-6-2	COAL RECLAIM CONVEYOR	1
6-6A	SOLID FUEL CRUSHER CONVEYOR	1
6-7	SOLID FUEL CRUSHER	1
6-8	COAL/COKE DAY TANK CONVEYOR BELT	1
6-9	SOLID FUEL DAY TANK	1

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
7-1-1	BULK SNCR REAGENT TANK	1, 51/10/04/1995
7-1-2	WOF TANK 2	51/10/04/1995
7-1-3	BULK SNCR REAGENT TANK	1
7-1-4	WOF TANK 4	51/10/04/1995
7-4	UNLOADING PIPING - SNCR	1
7-7	SNCR DAY TANK	1
8	CLINKER ELEVATOR 2, SILOS 21 & 22 BH STACK	1
9-10	COOLING TOWER	106.371/09/04/2000
9-12	USED OIL STORAGE TANK- QUARRY SHOP	106.472/09/04/2000
9-13	ENGINE OIL STORAGE TANK	106.472/09/04/2000
9-14	PORTABLE HEATER	106.181/11/01/2001
9-15	PORTABLE HEATER	106.181/11/01/2001
9-16	PORTABLE HEATER	106.181/11/01/2001
9-17	PORTABLE HEATER	106.181/11/01/2001
9-18	PORTABLE HEATER	106.181/11/01/2001
9-19	PORTABLE HEATER	106.183/09/04/2000
9-20	PORTABLE HEATER	106.183/09/04/2000
9-21	PORTABLE HEATER	106.183/09/04/2000
9-22	PORTABLE HEATER	106.183/09/04/2000
9-23	PORTABLE HEATER	106.183/09/04/2000
9-24	PORTABLE HEATER	106.183/09/04/2000

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
9-25	PORTABLE HEATER	106.183/09/04/2000
9-26	PORTABLE HEATER	106.183/09/04/2000
9-27	PORTABLE HEATER	106.183/09/04/2000
9-28	PORTABLE HEATER	106.183/09/04/2000
9-29	PORTABLE HEATER	106.183/09/04/2000
9-2	DIESEL FUEL TANK	53/10/04/1995
9-30	PORTABLE HEATER	106.183/09/04/2000
9-3	GASOLINE STORAGE TANK	53/09/12/1989
9-5	WASTE OIL STORAGE TANK	51/04/05/1995
9-6A	COLD SOLVENT CLEANER- PLANT MAINTENANCE SHOP	107/04/05/1995
9-7	LUBE OIL TANK 1	51/04/05/1995
9-8	LUBE OIL TANK 2	51/04/05/1995
9-9	OIL WATER STORAGE TANK	106.472/09/04/2000
9	FINISH MILL 2 STACK	1
F-CSB	T.P. HOPPER 3 TO CONV. 6	1
F-MB1-A	NO. 1&2 RAW MILL CONVEYOR T.P. INSIDE MAIN BLDG.	1

**Alternative Requirement**

**Alternative Requirement..... 84**

Bryan W. Shaw, Ph.D., *Chairman*  
Buddy Garcia, *Commissioner*  
Carlos Rubinstein, *Commissioner*  
Mark R. Vickery, P.G., *Executive Director*



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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
*Protecting Texas by Reducing and Preventing Pollution*

June 1, 2010

MR KEVIN BLANKENSHIP  
PLANT MANAGER  
ASH GROVE TEXAS LP  
PO BOX 520  
MIDLOTHIAN TX 76065-0500

Re: Permit Alteration  
Permit Number: 1  
Alternative Case Specific Specifications  
Midlothian, Ellis County  
Regulated Entity Number: RN100225978  
Customer Reference Number: CN600132161  
Account Number: ED-0034-O

Dear Mr. Blankenship:

This is in response to your letter received May 1, 2009, requesting alteration of the conditions of the above-referenced permit. We understand that you requested an alternative case specific specification of your ammonia emission limit pursuant to Title 30 Texas Administrative Code §117.3125 (30 TAC § 117.3125).

As indicated in 30 TAC § 116.116(c), and based on our review, Permit Number 1 is altered. Enclosed are the altered permit conditions to replace those currently attached to your permit. Please attach these to your permit.

No planned maintenance, startup, and shutdown emissions have been reviewed or represented in this application and none are authorized by this permit.

As of July 1, 2008, all analytical data generated by a mobile or stationary laboratory in support of compliance with air permits must be obtained from a NELAC (National Environmental Laboratory Accreditation Conference) accredited laboratory under the Texas Laboratory Accreditation Program or meet one of several exemptions. Specific information concerning which laboratories must be accredited and which are exempt may be found in 30 TAC § 25.4 and § 25.6.

Mr. Kevin Blankenship

Page 2

June 1, 2010

Re: Permit Number 1

For additional information regarding the laboratory accreditation program and a list of accredited laboratories and their fields of accreditation, please see the following Web site:

[http://www.tceq.state.tx.us/compliance/compliance\\_support/qa/env\\_lab\\_accreditation.html](http://www.tceq.state.tx.us/compliance/compliance_support/qa/env_lab_accreditation.html)

For questions regarding the accreditation program, you may contact the Texas Laboratory Accreditation Program at (512) 239-3754 or by e-mail at [labprgms@tceq.state.tx.us](mailto:labprgms@tceq.state.tx.us).

Your cooperation in this matter is appreciated. If you need further information or have any questions, please contact Ms. Bridget Malone at (512) 239-4286 or write to the Texas Commission on Environmental Quality, Office of Permitting and Registration, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality.

Sincerely,



Steve Hagle, P.E., Director  
Air Permits Division  
Office of Permitting and Registration  
Texas Commission on Environmental Quality

SH/BM/kp

Enclosure

cc: Air Section Manager, Region 4 - Fort Worth

Project Number: 146581



## SPECIAL CONDITIONS

Permit Number 1

### EMISSION LIMITATIONS

1. This permit covers only those sources of emissions listed in the attached table, entitled Emission Sources - Maximum Allowable Emission Rates, and those sources are limited to the emission limits and other conditions specified in that attached table.
2. Each kiln shall have an individual maximum allowable sulfur dioxide (SO<sub>2</sub>) emission rate of 1,131 pounds per hour (lb/hr). Additionally, all three kilns in aggregate shall operate under a total combined SO<sub>2</sub> emission rate of 2,100 lb/hr.

Records demonstrating compliance with this condition shall be kept accordingly and, upon request, made immediately available to representatives of the Texas Commission on Environmental Quality (TCEQ) or any local air pollution program having jurisdiction.

3. Kiln No. 3 [Emission Point No. (EPN) 12] and Clinker Cooler Stack No. 3 (EPN 13) shall comply with all requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated for Portland Cement Plants in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subparts A and F.

Coal handling facilities shall comply with all requirements of the EPA regulations on Standards of Performance for New Stationary Sources promulgated for Coal Preparation Plants in 40 CFR Part 60, Subparts A and Y.

The requirements of Title 30 Texas Administrative Code § 113.690 (30 TAC § 113.690), including the referenced requirements contained in 40 CFR Part 63, Subpart LLL, the Portland Cement Manufacturing Maximum Achievable Control Technology Standards are applicable. As an existing area source, the 40 CFR Part 63, Subpart LLL requirements only apply to the Kilns (Facility Identification Nos. [FINs] 2-1, 2-2, 2-3). **(5/04)**

Limestone and shale handling/processing facilities as applicable shall comply with all requirements of the EPA regulations on Standards of Performance for New Stationary Sources promulgated for Nonmetallic Mineral Processing Plants in 40 CFR Part 60, Subparts A and OOO. **(5/04)**

Ammonia emissions from the kiln stacks shall not exceed a limit of 35 parts per million by volume (ppmv) at 7.0 percent oxygen, dry basis, on a 24-hour rolling average basis. **(6/10)**

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### OPACITY/VISIBLE EMISSION LIMITATIONS

4. Except for those periods described in 30 TAC §§ 101.201 and 101.211, no visible emissions, when adjusted for uncombined water vapor, shall leave the plant property as determined by Method 22 for a three-minute period out of any 30-minute period. If this condition is violated, further controls shall be installed and/or implemented as required to limit visible emissions.
5. Opacity of emissions from EPNs 1-2A, 1-2B, 1-2C, 1-2F, 1-6C, 1-6D, 1-12, 1-18, 1-19, 1-21, 1-23, 1-25, 4, 5, 8, 9, 10, 11, 23, 24, 25, 27, 28, 29, 30, 32, 33, 35, 3-15, and 5-2A shall not exceed 5 percent averaged over a six-minute period, and according to EPA Test Method 9 or equivalent. **(5/04)**

### FUEL SPECIFICATIONS

6. Fuel fired in each kiln shall be limited to coal, coke, new or used oil, wood chips, tire-derived fuel (TDF), and natural gas under this permit. **(10/01)**
7. Firing of TDF is limited to a maximum of 35 percent of total Btu requirements per kiln.
8. Upon request by the Executive Director of the TCEQ or the TCEQ Regional Director or any local air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuels utilized in these facilities or shall allow air pollution control program representatives to obtain a sample for analysis.
9. The on-site oil storage tanks are authorized to store used oil meeting the requirements of 40 CFR Part 279, Standards for the Management of Used Oil.

### OPERATIONAL LIMITATIONS, WORK PRACTICES, AND PLANT DESIGN

10. Emissions from transfers into Gypsum Silos 1 and 2 and transfer from Gypsum Conveyor 1 to Gypsum Conveyor 2 (FINs 4-3 and 4-4), transfers into Clinker Kiln Dust Tanks 1 and 2 (FINs 2-4 and 2-5); transfers into Clinker Silos 1, 2, 21, and 22 (FINs 3-4F, 3-4G, 3-5, and 3-6); transfers onto Clinker Belts 1 and 2 (FINs 3-7 and 3-8); Finish Mills 1 and 2 (FINs Rail, Truck, and Special Loading Operations (FINs 5-3, 5-4, and 5-5); the New Crusher (FIN 1-25) transfers to and from Quarry Belts 3, 4, 5, 6, and 7 (FINs 1-2A, 1-2B, 1-2C, 1-2D, and 1-2E); transfers to and from Quarry Fixed Conveyor 3 (FIN 1-26); transfers into the Limestone Day Tank (FIN 1-19); transfers to and from Quarry Conveyor 1 (FIN 1-18); transfers to Limestone Belts 2 and 3 (FINs 1-21 and 1-23); transfers from Gypsum Weigh Conveyor No. 2 (FIN 4-6); transfers to and from the Clinker Stacker (FIN 5-6); transfers into Slag Silos 1, 2, and 3 (FINs 1-14, 1-15, and 1-16); Slag Conveyor 2 (FIN 1-13); and transfers

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from the Slag Elevator (FIN 1-12) shall be collected and exhausted through a fabric filter. (3/07)

11. Outdoor stockpiles (i.e., gypsum, clinker, coal, sand, and mill scale and the cement kiln dust (CKD) disposal area) shall be sprinkled with water as necessary to control fugitive dust emissions. (5/04)
12. Emission Sources (EPNs 1-4A, 1-5A, 1-6A, 2-7A, and 2-7B) shall employ wet material and reduced drop as represented in the permit application to reduce fugitive dust emissions. (5/04)
13. Emission Sources (FINs 1-6A, 3-4D, and 3-4E) shall be enclosed as represented in the permit application to reduce fugitive dust emissions. (5/04)
14. Transfer of CKD from storage silos to the Pugmill (FIN 2-6) shall be through an enclosed conveyor. Also, the transfer to the pugmill shall be enclosed. (5/04)
15. Emission Sources (FINs 1-6B, 1-7A, 1-7B, 1-7C, 1-7D, 1-7E, 3-4A, 3-4B, 3-4C, 3-7, 3-8, 4-3, 4-4, and 4-5) shall employ partial enclosure as represented in the permit application to reduce fugitive dust emissions. (3/07)
16. The following operations are conducted by the indicated standard exemption or permit by rule:

Operation

Authorization

Fuel Oil Truck Unloading (EPN 18)

Standard Exemption No. 51  
dated July 15, 1988

Waste Oil Fuel Tank Nos. 1 through 4 (EPN 36),  
Storage Tank Piping (EPN 7-1),

Standard Exemption No. 51  
dated October 4, 1995

Unloading Piping (EPN 7-2) and  
Kiln Transfer Piping (EPN 7-3)

Standard Exemption No. 51  
dated October 4, 1995

Line Heater (EPN 15)

Standard Exemption No. 7  
dated April 25, 1986

(5/04)

17. Paved plant roads shall be swept or washed and unpaved roads shall be sprinkled with water and/or environmentally sensitive dust suppressant chemicals as necessary to control dust emissions. (5/04)

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18. All hoods, ducts, and collection systems shall be effective in preventing fugitive emissions. When compliance with this condition is required to be tested, compliance shall be determined by the EPA Reference Method 22 with no visible emissions persisting for more than one six-minute period in a half-hour. **(5/04)**

### INITIAL DETERMINATION OF COMPLIANCE

19. At the discretion of the Executive Director of the TCEQ or the TCEQ Regional Director, the holder of this permit shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the cement kilns. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.
  - A. The appropriate TCEQ Regional Office in the region where the source is located shall be contacted as soon as testing is scheduled, but not less than 45 days prior to sampling to schedule a pretest meeting.

The notice shall include:

- (1) Date for pretest meeting.
- (2) Date sampling will occur.
- (3) Name of firm conducting sampling.
- (4) Type of sampling equipment to be used.
- (5) Method or procedure to be used in sampling.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports.

A written proposed description of any deviation from sampling procedures specified in permit conditions or TCEQ or EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Regional Director shall approve or disapprove of any deviation from specified sampling procedures.

Requests to waive testing for any pollutant specified in B of this condition shall be submitted to the TCEQ Office of Permitting and Registration, Air Permits Division. Test waivers and alternate or equivalent procedure proposals for New Source Performance Standards (NSPS) testing which must have EPA approval shall be submitted to the TCEQ Air Permits Division.

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- B. Air contaminants emitted from the kilns to be tested for include (but are not limited to) particulate matter, nitrogen oxide (NO<sub>x</sub>), carbon monoxide (CO), volatile organic compounds, and SO<sub>2</sub>.
- C. Sampling shall occur at such times as may be required by the Executive Director of the TCEQ or TCEQ Regional Director. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office. Additional time to comply with the applicable requirements of 40 CFR Part 60 and 40 CFR Part 61 requires EPA approval, and requests shall be submitted to the TCEQ Air Permits Division.
- D. The plant shall operate at maximum production rates during stack emission testing. Primary operating parameters that enable determination of production rate shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting. If the plant is unable to operate at maximum rates during testing, then future production rates may be limited to the rates established during testing. Additional stack testing may be required when higher production rates (greater than 10 percent of wet slurry feed rate) are achieved.
- E. Two copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

One copy to the TCEQ Fort Worth Regional Office.

One copy to the TCEQ Austin Office of Permitting and Registration, Air Permits Division.

CONTINUOUS DETERMINATION OF COMPLIANCE

- 20. The holder of this permit shall install, calibrate, and maintain a continuous opacity monitoring system (COMS) to measure and record the opacity of the No. 3 Clinker Cooler Stack (EPN 13) and each kiln stack, and a continuous emission monitoring system (CEMS) to measure and record the in-stack concentration of NO<sub>x</sub>, CO, SO<sub>2</sub>, and oxygen from each kiln. Additionally, the holder of this permit shall install, calibrate, and maintain a continuous flow rate sensor to measure and record the exhaust flow rate in the stack. **(12/04)**
  - A. Each CEMS and COMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable Performance Specifications No. 1 through 4, 40 CFR Part 60, Appendix B. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ Office of Permitting and Registration, Air Permits Division in Austin for requirements to be met. **(12/04)**

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- B. The flow rate sensor shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in Performance Specification No. 6, 40 CFR 60, Appendix B. (12/04)
- C. The SO<sub>2</sub>, NO<sub>x</sub>, and CO CEMS and the continuous flow rate sensor shall be used as a continuous emission rate monitoring system for SO<sub>2</sub>, NO<sub>x</sub>, and CO. (12/04)
- D. Each system shall be zeroed and spanned daily and corrective action taken when the 24-hour span drift exceeds two times the amounts specified in 40 CFR Part 60, Appendix B, or as specified by the TCEQ if not specified in Appendix B. Zero and span are not required on weekends and plant holidays if instrument technicians are not normally scheduled on those days, unless the monitor is required by a subpart of NSPS or National Emission Standards for Hazardous Air Pollutants, in which case zero and span shall be done daily without exception.

Each monitor shall be quality-assured at least quarterly in accordance with the appropriate audit specified in 40 CFR Part 60, Appendix F, Procedure 1, § 5.1. An equivalent quality-assurance method approved by the TCEQ may also be used. Successive quarterly audits shall occur no closer than two months.

Cylinder gas audits of CEMS with exceedances of 15 percent accuracy shall be reported to the TCEQ Regional Director, and necessary corrective action shall be taken. The TCEQ Regional Director shall be notified as soon as possible after the discovery of any CEMS malfunction which is expected to result in more than 24 hours of lost data. At the discretion of the TCEQ Regional Director, the permit holder may be required to take supplemental stack concentration measurements. (12/04)

- E. The monitoring data shall be reduced to hourly average concentrations at least once everyday, using a minimum of four equally-spaced data points from each one-hour period. The individual average concentrations shall be reduced to units of the permit allowable emission rate in lb/hr at least once every week.
- F. All monitoring data and quality-assurance data shall be maintained by the source for a period of two years and shall be made available to the Executive Director of the TCEQ or designated representative upon request. The data from the CEMS may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit.

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- G. For NSPS sources subject to Appendix F, the appropriate TCEQ Regional Office shall be notified at least 30 days prior to each annual relative accuracy testing audit in order to provide them the opportunity to observe the testing.

REPORTING REQUIREMENTS

- 21. The holder of this permit shall submit quarterly NO<sub>x</sub>, SO<sub>2</sub>, and CO CEMS reports (one copy) to the TCEQ Regional Office; however, submission of opacity data is not required. In addition to hard copies, all CEMS reports shall be submitted on disk in ASCII comma-delimited format or another format acceptable to the TCEQ Regional Director. All reports shall be postmarked by the 30th day following the end of each calendar quarter and shall include the following information for each monitor: **(12/04)**
  - A. The date and duration of time from the commencement to the completion of an event which resulted in excess stack emissions.
  - B. The date and time of the commencement and completion of each specific time period of excess stack emissions within that event.
  - C. The total time duration of excess stack emissions.
  - D. The magnitude of the excess stack emissions including the highest and average (hourly) emission rate(s). For the purposes of this quarterly CEMS report, all excess stack emissions shall be converted into the units of the permit with conversion factors and equations included.
  - E. The nature and cause of any malfunction resulting in excess emissions and the corrective action taken and/or preventative measures adopted.
  - F. The date and time identifying each period during which a CEMS was inoperative, except for zero span checks, and the nature of the system repairs and/or adjustments which occurred during the downtime.
  - G. When no excess emissions have occurred or the respective CEMS has not been inoperative or repaired, such information shall be stated in the report.
  - H. The total tons of NO<sub>x</sub>, SO<sub>2</sub>, and CO emitted during the quarter and the total hours of kiln operation.
  - I. The reporting of excess emissions required by this condition does not relieve the holder of

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this permit from notification requirements of emission events as required by 30 TAC § 101.201 or notification of scheduled maintenance, start-up, and shutdown as required by 30 TAC § 101.211.

- J. Written records of all test results from quarterly gas audits.
- 22. For the purposes of reporting pursuant to Special Condition No. 21, non-complying emissions are defined as NO<sub>x</sub>, SO<sub>2</sub>, and CO emissions which occur during an hourly average period where the emissions of these pollutants, as measured and recorded by the CEMS, exceed the emissions limitations of the maximum allowable emission rates table (MAERT).

MISCELLANEOUS

- 23. The holder of this permit shall physically identify (minimum 3" letters/numbers) and mark in a conspicuous location all equipment that has the potential of emitting air contaminants as follows within 90 days of the approval of these revised conditions:
  - A. The FINs as submitted to the Emissions Inventory Section of the TCEQ.
  - B. The EPNs as listed on the MAERT.
- 24. A copy of this permit shall be kept at the plant site and made available at the request of personnel from the TCEQ or any local air pollution control agency.

COMPLIANCE ASSURANCE MONITORING

- 25. The permit holder will measure and record the pressure drop for the fabric filter baghouses on EPNs 3, 7, 5, 9, 10, 11, and 5-2A. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:

$\pm 0.5$  inch water gauge pressure ( $\pm 125$  pascals); or  
 $\pm 0.5$  percent of span

The pressure drop will be measured and recorded once per day that the baghouse is in operation.



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For EPNs 10, 11, and 5-2A, a minimum pressure drop of less than 0.5 inch water gauge pressure and a maximum pressure drop of greater than 6.5 inches water gauge pressure shall be considered and reported as a deviation.

For EPNs 5 and 9, a minimum pressure drop of less than 3 inches water gauge pressure and a maximum pressure drop of greater than 10 inches water gauge pressure shall be considered and reported as a deviation.

For EPNs 3 and 7, a minimum pressure drop of less than 1 inch water gauge pressure and a maximum pressure drop of greater than 7 inches water gauge pressure shall be considered and reported as a deviation.

The required monitoring equipment shall be installed, tested, and be operational by the issuance of the first renewed Federal Operating Permit No. O1054. (12/06)

#### PERIODIC MONITORING

26. The permit holder will measure and record the pressure drop for the Fabric Filter Baghouses on EPNs 1-2A, 1-2B, 1-2C, 1-2F, 1-6C, 1-6D, 1-12, 1-18, 1-19, 1-21, 1-23, 1-25, 4, 8, 23, 24, 25, 27, 28, 29, 30, 32, 33, 35, and 3-15. The monitoring instrumentation shall be calibrated, maintained, and operated in accordance with manufacturer's specifications or other written procedures.

The pressure drop will be measured and recorded once per week that the baghouse is in operation. A minimum pressure drop of less than 0.5 inch water gauge pressure and a maximum pressure drop of greater than 6.5 inches water gauge pressure shall be considered and reported as a deviation.

The required monitoring equipment shall be installed, tested, and be operational by the issuance of the first renewed Federal Operating Permit No. O1054. (12/06)

#### RECORDKEEPING REQUIREMENTS

27. The following records shall be kept on-site for a 24-month period and made available for inspection by the TCEQ and local air pollution control programs with jurisdiction:
- A. Hourly and annual Stamler Feeder (FIN 1-24) raw material throughput.
  - B. Hourly and annual Outside Hopper (FIN 1-6) throughput.

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- C. Hourly and annual Hammer Mill/Coal Crusher (FIN 6-7) throughput.
- D. Hourly and annual Kiln 1, 2, and 3 (FINs 2-1, 2-2, and 2-3) clinker throughput.

The hourly stamler feeder throughput shall be calculated from records of the material throughput and hours of operation for the calendar month and recorded by the 15th day of the month following the month to which the records pertain. A rolling 12-month total throughput for the stamler feeder shall be based on monthly throughput records and recorded by the 15th day of the month following the month to which the records pertain.

The hourly outside hopper and hammer mill/coal crusher throughput shall be calculated and recorded at least once per calendar year from measurements of the time required to move a known quantity of material through these facilities. A rolling 12-month total throughput for the outside hopper and hammer mill/coal crusher shall be based on monthly throughput records and recorded by the 15th day of the month following the month to which the records pertain.

The hourly Kiln 1, 2, and 3 clinker throughputs shall be calculated from daily records of clinker throughputs and hours of operation for Kilns 1, 2, and 3 (FINs 2-1, 2-2, and 2-3). A rolling 12-month total clinker throughput for Kilns 1, 2, and 3 (FINs 2-1, 2-2, and 2-3) shall be based on monthly throughput records and recorded by the 15th day of the month following the month to which the records pertain. **(5/04)**

- E. Records of daily baghouse pressure drop measurements for the EPNs required by Compliance Assurance Monitoring required in Special Condition No. 25. **(12/06)**
- F. Records of weekly baghouse pressure drop measurements for the EPNs required by Periodic Monitoring required in Special Condition No. 26. **(12/06)**
- G. Records of calibrations for monitoring devices specified in Special Condition Nos. 25 and 26. **(12/06)**

Dated June 1, 2010

**Appendix A**

**Acronym List ..... 97**

## Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM	actual cubic feet per minute
AMOC	alternate means of control
ARP	Acid Rain Program
ASTM	American Society of Testing and Materials
B/PA	Beaumont/Port Arthur (nonattainment area)
CAM	Compliance Assurance Monitoring
CD	control device
CEMS	continuous emissions monitoring system
CFR	Code of Federal Regulations
COMS	continuous opacity monitoring system
CVS	closed vent system
D/FW	Dallas/Fort Worth (nonattainment area)
EP	emission point
EPA	U.S. Environmental Protection Agency
EU	emission unit
FCAA Amendments	Federal Clean Air Act Amendments
FOP	federal operating permit
gr/100 scf	grains per 100 standard cubic feet
HAP	hazardous air pollutant
H/G/B	Houston/Galveston/Brazoria (nonattainment area)
H <sub>2</sub> S	hydrogen sulfide
ID No.	identification number
lb/hr	pound(s) per hour
MACT	Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr	Million British thermal units per hour
NA	nonattainment
N/A	not applicable
NADB	National Allowance Data Base
NESHAP	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO <sub>x</sub>	nitrogen oxides
NSPS	New Source Performance Standard (40 CFR Part 60)
NSR	New Source Review
ORIS	Office of Regulatory Information Systems
Pb	lead
PBR	Permit By Rule
PEMS	predictive emissions monitoring system
PM	particulate matter
ppmv	parts per million by volume
PRO	process unit
PSD	prevention of significant deterioration
psia	pounds per square inch absolute
SIP	state implementation plan
SO <sub>2</sub>	sulfur dioxide
TCEQ	Texas Commission on Environmental Quality
TSP	total suspended particulate
TVP	true vapor pressure
U.S.C.	United States Code
VOC	volatile organic compound