

NOV 22 2019

November 21, 2019

FEDERAL EXPRESS

Laura M. Crowder, Director WV Department of Environmental Protection Division of Air Quality 601 57th Street SE Charleston, WV 25304

Re: Monongahela Power Company

Harrison Power Station

Title V Operating Permit R30-03300015-2015

Renewal Application

Dear Ms. Crowder:

Enclosed please find two (2) separate CD-ROMs each containing electronic copies of the Title V permit application forms and supporting calculation spreadsheets, and one (1) hardcopy of the General Form including the original signed certification page, for the renewal of the Monongahela Power Company Harrison Power Station's Title V Operating Permit No. R30-03300015-2015. The current Title V operating permit for the Harrison Power Station will expire on May 2, 2020.

If you have any questions or require additional information, please contact me at (724) 838-6136 or by email at <u>jlefik@firstenergycorp.com</u>.

Sincerely,

James A. Lefik

Engineer IV

Air Permitting, Testing & CEMs

Enclosures

TITLE V PERMIT APPLICATION CHECKLIST FOR ADMINISTRATIVE COMPLETENESS

prep sub	complete application is demonstrated when all of the information required below is properly bared, completed and attached. The items listed below are required information which must be mitted with a Title V permit application. Any submittal will be considered incomplete if the nired information is not included.*
\boxtimes	Two signed copies of the application (at least one <u>must</u> contain the original " <i>Certification</i> " page signed and dated in blue ink)
	Correct number of copies of the application on separate CDs or diskettes, (i.e. at least one disc per copy)
	*Table of Contents (needs to be included but not for administrative completeness)
	Facility information
	Description of process and products, including NAICS and SIC codes, and including alternative operating scenarios
	Area map showing plant location
\boxtimes	Plot plan showing buildings and process areas
	Process flow diagram(s), showing all emission units, control equipment, emission points, and their relationships
	Identification of all applicable requirements with a description of the compliance status, the methods used for demonstrating compliance, and a Schedule of Compliance Form (ATTACHMENT F) for all requirements for which the source is not in compliance
	Listing of all active permits and consent orders (if applicable)
	Facility-wide emissions summary
\boxtimes	Identification of Insignificant Activities
	ATTACHMENT D - Title V Equipment Table completed for all emission units at the facility except those designated as insignificant activities
	ATTACHMENT E - Emission Unit Form completed for each emission unit listed in the Title V Equipment Table (ATTACHMENT D) and a Schedule of Compliance Form (ATTACHMENT F) for all requirements for which the emission unit is not in compliance
\boxtimes	ATTACHMENT G - Air Pollution Control Device Form completed for each control device listed in the Title V Equipment Table (ATTACHMENT D)
	ATTACHMENT H – Compliance Assurance Monitoring (CAM) Plan Form completed for each control device for which the "Is the device subject to CAM?" question is answered "Yes" on the Air Pollution Control Device Form (ATTACHMENT G)
	General Application Forms signed by a Responsible Official
	Confidential Information submitted in accordance with 45CSR31

TITLE V OPERATING PERMIT RENEWAL APPLICATION

MONONGAHELA POWER COMPANY HARRISON POWER STATION

TITLE V OPERATING PERMIT #R30-03300015-2015

<u>Date of Application Submittal:</u>
November 21, 2019

Table of Contents

(Information enclosed as hardcopies and electronic copies as noted)

Title V Permit Application – General Forms (hardcopy + electronic)
Facility Area Map (electronic)
Facility Plot Plan (electronic)
Process Flow Diagrams (electronic)
 Material Flow Diagram Material Flow Diagram Table Coal Handling System Lime Handling #1 Emergency Lime Handling Lime Slurry Handling Absorber Sludge Handling Lime Handling #2 Fly Ash Handling
Emission Units Tables (electronic)
Emission Unit Forms (electronic)
 Combustion Sources Materials Handling Miscellaneous Sources Insignificant Storage Tanks
Air Pollution Control Device Forms (electronic) Attachment G
Emissions Calculations Excel Files (electronic)Appendix A

- Harrison Combustion Sources
- Fugitive Particulate Matter Emission Sources
- Hourly Fugitive Emission Calculations Materials Handling
- Miscellaneous Sources



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

601 57th Street SE Charleston, WV 25304 Phone: (304) 926-0475

www.dep.wv.gov/daq

INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

1. Name of Applicant (As registered with the WV Secretary of State's Office): Monongahela Power Company	2. Facility Name or Location: Harrison Power Station
3. DAQ Plant ID No.:	4. Federal Employer ID No. (FEIN):
0 3 3 — 0 0 0 1 5	2 3-3 0 2 0 4 8 1
5. Permit Application Type:	
	perations commence? 1972 expiration date of the existing permit? 06/02/2020
6. Type of Business Entity:	7. Is the Applicant the:
☐ Corporation ☐ Governmental Agency ☐ LLC ☐ Partnership ☐ Limited Partnership	Owner Operator Both
8. Number of onsite employees: 211	If the Applicant is not both the owner and operator, please provide the name and address of the other party.
9. Governmental Code:	
Federally owned and operated; 1	County government owned and operated; 3 Municipality government owned and operated; 4 District government owned and operated; 5
10. Business Confidentiality Claims	
Does this application include confidential information If yes, identify each segment of information on each pustification for each segment claimed confidential, in accordance with the DAQ's "PRECAUTIONARY NOT	page that is submitted as confidential, and provide cluding the criteria under 45CSR §31-4.1, and in

11. Mailing Address		
Street or P.O. Box: 800 Cabin Hill Drive		
City: Greensburg	State: Pennsylvania	Zip: 15601-1650
Telephone Number: (724) 837-3000	Fax Number: (234) 678-2	384

12. Facility Location		
12. Facility Location	T	
Street: Route 20	City: Haywood	County: Harrison
UTM Easting: 557.392 km	UTM Northing: 4,359.489 km	Zone: ⊠ 17 or □ 18
Directions: From the junction of approximately one mile west to	State Route 20 and US Route 19 the facility.	near Haywood, take Route 20
Portable Source? Yes X	No	
Is facility located within a nonattain	iment area? Yes No	If yes, for what air pollutants?
Is facility located within 50 miles of	another state? 🛛 Yes 🔲 No	If yes, name the affected state(s). Pennsylvania
Is facility located within 100 km of a If no, do emissions impact a Class I A		If yes, name the area(s). Dolly Sods Wilderness Area - 91km Otter Creek Wilderness Area- 69km
¹ Class I areas include Dolly Sods and Otter C Face Wilderness Area in Virginia.	Creek Wilderness Areas in West Virginia, and She	enandoah National Park and James River

13. Contact Information		
Responsible Official: Gary L. Dinzeo		Title: Director, Harrison Plant
Street or P.O. Box: P.O. Box 600	7	
City: Haywood	State: WV	Zip: 26366-0600
Telephone Number: (304) 584-2233	Fax Number: (304) 584	-2408
E-mail address: gdinzeo@firstenergycor	rp.com	
Environmental Contact: James A. Lefik		Title: Engineer IV
Street or P.O. Box: 800 Cabin Hill Drive		
City: Greensburg	State: Pennsylvania	Zip: 15601-1650
Telephone Number: (724) 838-6136	Fax Number: (234) 678-	2384
E-mail address: jlefik@firstenergycorp.co	om	
Application Preparer: James A. Lefik		Title: Engineer IV
Company: FirstEnergy Corp.		
Street or P.O. Box: 800 Cabin Hill Drive		
City: Greensburg	State: Pennsylvania	Zip: 15601-1650
Telephone Number: (724) 838-6136	Fax Number: (234) 678-2	2384
-mail address: jlefik@firstenergycorp.co	m	

14. Facility Description

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC
Electric Generation Service	Electric power generation and transmission	221112	4911

Provide a general description of operations.

The Harrison Power Station is a fossil fuel-fired electric generation facility with three 6,325 MMBtu/hr coal-fired boilers with nominal gross MW ratings of 713 MW, 710 MW, and 711 MW, respectively. The facility operates under the Standard Industrial Code (SIC) 4911, and North American Industry Classification System (NAICS) Code 221112. The facility also consists of two 202.2 MMBtu/hr auxiliary boilers, two 800-kW diesel-fired emergency generators, a 350-kW diesel-fired emergency generator, a 100-kW propane-fired emergency generator, a 605-bhp propane-fired emergency generator, and two diesel-fired emergency fire pump engines. Supporting operations include lime handling, coal handling, ash handling, sludge system and various storage tanks with insignificant air emissions. The facility has the potential to operate twenty-four hours a day, seven days a week, and fifty-two weeks per year.

- 15. Provide an Area Map showing plant location as ATTACHMENT A.
- 16. Provide a Plot Plan(s), e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as ATTACHMENT B. For instructions, refer to "Plot Plan Guidelines."
- Provide a detailed Process Flow Diagram(s) showing each process or emissions unit as ATTACHMENT
 Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

Section 2: Applicable Requirements

12 2	
18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
⊠ SIP	FIP
☑ Minor source NSR (45CSR13)	⊠ PSD (45CSR14)
⊠ NESHAP (45CSR34)	☐ Nonattainment NSR (45CSR19)
Section 111 NSPS	Section 112(d) MACT standards
Section 112(g) Case-by-case MACT	☐ 112(r) RMP
Section 112(i) Early reduction of HAP	Consumer/commercial prod. reqts., section 183(e)
Section 129 Standards/Reqts.	Stratospheric ozone (Title VI)
☐ Tank vessel reqt., section 183(f)	Emissions cap 45CSR§30-2.6.1
☐ NAAQS, increments or visibility (temp. sources)	45CSR27 State enforceable only rule
☐ 45CSR4 State enforceable only rule	Acid Rain (Title IV, 45CSR33)
☐ Emissions Trading and Banking (45CSR28)	Compliance Assurance Monitoring (40CFR64)
☐ CAIR NO _x Annual Trading Program (45CSR39)	☐ CAIR NO _x Ozone Season Trading Program (45CSR40)
☑ CAIR SO ₂ Trading Program (45CSR41)	
19. Non-Applicability Determinations	
List all requirements which the source has determine requested. The listing shall also include the rule cit	ned not applicable and for which a permit shield is
requested. The listing shall also include the rule cit	ation and the reason why the shield applies.
The non-annlicable require	ments are listed on the next page.
the non apprensive require.	ments are listed on the next page.
Permit Shield	

- 19. Non-Applicability Determinations (Continued) Attach additional pages as necessary.
- 19. Non-Applicability Determinations

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

45CSR27: To prevent and control the emissions of Toxic Air Pollutants. Although this facility has emissions of Toxic Air Pollutants in excess of the thresholds listed in 45CSR27 Table A, it does not meet the definition of a Chemical Processing Unit. There is not an assembly of reactors, tanks, distillation columns, heat exchangers, vaporizers, compressors, dryers, decanters, and/or other equipment used to treat, store, manufacture, or use toxic air pollutants.

40 C.F.R. 60, Subpart K & Ka: All tanks are below 40,000 gallons in capacity.

40 C.F.R. 60, Subpart Kb: All new tanks constructed after July 23, 1984 are less than the capacity threshold of 19,813 gallons and/or have a vapor pressure less than 2.2 psi.

40 C.F.R. 60, Subpart D: Harrison Power Station boilers (B1, B2, & B3) were constructed prior to August 17, 1971.

40 C.F.R. 60, Subpart Da: Harrison Power Station boilers (B1, B2, & B3) were constructed before September 18, 1978.

40 C.F.R. 60, Subpart Db: Harrison Power Station Auxiliary boilers (A, B) were constructed prior to June 19, 1984.

40 C.F.R. 60, Subpart OOO: The definition of limestone states that it is a sedimentary rock consisting of at least 80% calcium or magnesium carbonates. Lime is defined as calcium oxide, which can be produced by subjecting calcium carbonate to high temperature baking in kilns to drive off carbon dioxide. Therefore, lime is not equivalent to limestone and the Harrison lime handling operation is not subject to Subpart OOO.

40 C.F.R. 63, Subpart Q: The existing Cooling Towers do not use any chromium-based water treatment chemicals and therefore, are exempt from the referenced regulation.

45CSR5: The Rule to Prevent and Control Air Pollution from the Operation of Coal Preparation Plants, Coal Handling Operations, and Coal Disposal Areas is not applicable to the facility since 45CSR2 applies.

45CSR17: The Rule to Prevent and Control Particulate Matter Air Pollution from Material Handling Preparation, Storage, and Other Sources of Fugitive Particulate Matter is not applicable to the facility because 45CSR2 is applicable.

List all requirements wh requested. The listing sl	nich the source has hall also include th	s determined not ne rule citation a	applicable and nd the reason w	for which a pern hy the shield app	nit shield is lies.
Permit Shield					

20. Facility-Wide Applicable Requirements

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements).

45CSR2: Control of Particulate matter emissions from indirect heat exchangers

45CSR6: Open burning prohibited

45CSR7: Control of Particulate from Manufacturing Source Operations

45CSR10: Control of sulfur dioxide emissions from in direct heat exchangers

45CSR11: Standby plans for emergency episodes.

45CSR13: Permit for construction, modification

45CSR16: Standard of Performance for New Stationary Sources Pursuant to 40 CFR Part 60

WVCode§22-5-4 (a)(14): Secretary can request any pertinent information.

45CSR30: Operating permit requirement

45CSR33: Acid Rain Provisions and Permits

45CSR34: Emission Standards for Hazardous Air Pollutants

40 C.F.R. Part 61: Asbestos inspection and removal

40 C.F.R. Part 64: Compliance Assurance Monitoring

40 C.F.R Part 63 Subpart DDDDD: National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters

40 C.F.R Part 63 Subpart UUUUU: National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units

40 C.F.R. Part 60, Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

40 C.F.R. Part 60, Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

40 C.F.R Part 63, Subpart ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

40 C.F.R. Part 72: Permits Regulation

40 C.F.R. Part 74: Sulfur dioxide Opt-ins

40 C.F.R. Part 75: Continuous Emissions Monitoring

40 C.F.R. Part 76: Nitrogen Oxides Reduction Program

40 C.F.R. Part 77: Excess Emissions

40 C.F.R. Part 60, Subpart Y: Coal Preparation Plants

40 C.F.R. Part 82, Subpart F: Ozone depleting substances

State Only: 45CSR4: No objectionable odors

45CSR39: NOx Annual Trading Program

45CSR40: NOx Ozone Season Trading Program

45CSR41: SO₂ Trading Program

Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
45CSR2: monitoring/testing/recordkeeping/reporting
45CSR6: recordkeeping
45CSR7: recordkeeping
45CSR10: monitoring/recordkeeping
45CSR11: recordkeeping
45CSR13: recordkeeping/reporting
45CSR16: recordkeeping
WVCode§22-5-4 (a)(14): recordkeeping/reporting
45CSR30: monitoring/testing/recordkeeping/reporting
45CSR33: monitoring/testing/recordkeeping/reporting
45CSR34: monitoring/testing/recordkeeping/reporting
40 C.F.R. Part 61: recordkeeping
40 C.F.R. Part 64: monitoring/recordkeeping/reporting
40 C.F.R Part 63 Subpart DDDDD: monitoring/testing/recordkeeping/reporting
40 C.F.R Part 63 Subpart UUUUU: monitoring/testing/recordkeeping/reporting
40 C.F.R. Part 60, Subpart IIII: monitoring/recordkeeping
40 C.F.R. Part 60, Subpart JJJJ: monitoring/recordkeeping
40 C.F.R. Part 63, Subpart ZZZZ: monitoring/recordkeeping
40 C.F.R. Part 72: recordkeeping/reporting
40 C.F.R. Part 74: recordkeeping/reporting
40 C.F.R. Part 75: monitoring/testing/recordkeeping/reporting
40 C.F.R. Part 76: monitoring/recordkeeping
40 C.F.R. Part 77: monitoring/recordkeeping/reporting
40 C.F.R. Part 60, Subpart Y: monitoring/testing/recordkeeping/reporting 40 C.F.R. Part 82, Subpart F: testing/recordkeeping
State Only: 45CSR4: monitoring/recordkeeping
15CSR39: monitoring/recordkeeping/reporting
45CSR39: monitoring/recordkeeping/reporting
45CSR40: monitoring/recordkeeping/reporting
DCOK-1. montoring records exping reporting
Are you in compliance with all facility-wide applicable requirements? Yes No
f no, complete the Schedule of Compliance Form as ATTACHMENT F.

20. Facility-Wide Applicable Requirements (Continued) - Attach additional pages as necessary.
List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number. $\rm N/A$
Permit Shield
For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.) N/A
Are you in compliance with all facility-wide applicable requirements? Yes No
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

Permit or Consent Order Number	Date of Issuance	List any Permit Determinations
	MM/DD/YYYY	that Affect the Permit (if any)
R13-1477B	06/03/2003	
R13-2988A	11/09/2012	
G60-C049	11/28/2012	
R30-033000015-2015 (MM01)	06/02/2015	
R13-2988B	08/10/2016	
G60-D049A	11/25/2019	
G60-D049B	11/?/2019	Pending Issuance
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Permit Number	Date of Issuance	Permit Condition Numbe	
N/A	N/A	N/A	
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23. Facility-Wide Emissions Summary [Tons	per Year]
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	1,888
Nitrogen Oxides (NO _X)	42,072
Lead (Pb)	0.54
Particulate Matter (PM _{2.5}) ¹	2,769
Particulate Matter (PM ₁₀) ¹	4,135
Total Particulate Matter (TSP)	7,420
Sulfur Dioxide (SO ₂)	425,533
Volatile Organic Compounds (VOC)	219
Hazardous Air Pollutants ²	Potential Emissions
Antimony	0.03
Arsenic	0.56
Beryllium	0.03
Cadmium	0.07
Chromium	0.70
Cobalt	0.21
Manganese	0.89
Mercury	0.23
Nickel	0.68
Selenium	2.37
Hydrochloric Acid (HCl)	88.3
Hydrogen Fluoride (HF)	30.3
Polycyclic Aromatic Hydrocarbons	0.17
Acetaldehyde	1.97
Acrolein	
Benzene	1.00
Benzyl Chloride	2.42

Monongahela Power Company - Harrison Plant Title V Permit Renewal Application 2019

Cyanide Compounds	8.66
Formaldehyde	14.14
Isophorone	2.01
Methyl Bromide	0.55
Methyl Chloride	1.84
Methyl Ethyl Ketone	1.35
Methyl Hydrazine	0.59
Methylene Chloride	1.00
Propionaldehyde	1.32
Toluene	0.83
Regulated Pollutants other than Criteria and HAP	Potential Emissions
None	N/A
4	

 $^{{}^{1}}PM_{2.5}$ and PM_{10} are components of TSP.

²For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.

Section 4: Insignificant Activities

24	. Insig	nificant Activities (Check all that apply)		
\boxtimes		Air compressors and pneumatically operated equipment, including hand tools.		
	2.	Air contaminant detectors or recorders, combustion controllers or shutoffs.		
3. Any consumer product used in the same manner as in normal consumer use, provided the use a duration and frequency of exposure which are not greater than those experienced by consumption which may include, but not be limited to, personal use items; janitorial cleaning supplies, of supplies and supplies to maintain copying equipment.				
\boxtimes	4.	Bathroom/toilet vent emissions.		
\boxtimes	5.	Batteries and battery charging stations, except at battery manufacturing plants.		
Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume ho vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending applicable SIP) or be grouped together for purposes of description.				
Ш	7.	Blacksmith forges.		
\boxtimes	8.	Boiler water treatment operations, not including cooling towers.		
\boxtimes	9.	Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.		
Ц	10.	CO ₂ lasers, used only on metals and other materials which do not emit HAP in the process.		
\boxtimes	11.	Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.		
\boxtimes	12.	Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.		
	13.	Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.		
	14.	Demineralized water tanks and demineralizer vents.		
ᆜ	15.	Drop hammers or hydraulic presses for forging or metalworking.		
	16.	Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.		
<u> </u>	17.	Emergency (backup) electrical generators at residential locations.		
	18.	Emergency road flares.		
	19.	Emission units which do not have any applicable requirements, and which emit criteria pollutants (CO, NO _x , SO ₂ , VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units.		
		Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis:		
		Various Insignificant Tanks with negligible VOC emissions		

24	. Insig	nificant Activities (Check all that apply)				
Emission units which do not have any applicable requirements, and which emit hazardo into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds aggregate total for all HAPs from all emission sources. This limitation cannot be used for which emits dioxin/furans nor for toxic air pollutants as per 45CSR27.						
Please specify all emission units for which this exemption applies along with the quant air pollutants emitted on an hourly and annual basis:						
<u> </u>						
닐	21.	Environmental chambers not using hazardous air pollutant (HAP) gases.				
\boxtimes	22.	Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.				
	23.	Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.				
	24.	Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.				
	25.	Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.				
	26.	Fire suppression systems.				
	27.	Firefighting equipment and the equipment used to train firefighters.				
	28.	Flares used solely to indicate danger to the public.				
	29.	Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.				
	30.	Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.				
\boxtimes	31.	Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.				
	32.	Humidity chambers.				
	33.	Hydraulic and hydrostatic testing equipment.				
\boxtimes	34.	Indoor or outdoor kerosene heaters.				
	35.	Internal combustion engines used for landscaping purposes.				
	36.	Laser trimmers using dust collection to prevent fugitive emissions.				
	37.	Laundry activities, except for dry-cleaning and steam boilers.				
	38.	Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.				
	39.	Oxygen scavenging (de-aeration) of water.				
Ш	40.	Ozone generators.				

24.	Insig	nificant Activities (Check all that apply)
	41.	Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
	42.	Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
	43.	Process water filtration systems and demineralizers.
	44.	Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
	45.	Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
\boxtimes	46.	Routing calibration and maintenance of laboratory equipment or other analytical instruments.
	47.	Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
	48.	Shock chambers.
	49.	Solar simulators.
	50.	Space heaters operating by direct heat transfer.
\boxtimes	51.	Steam cleaning operations.
	52.	Steam leaks.
	53.	Steam sterilizers.
	54.	Steam vents and safety relief valves.
	55.	Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
		Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
	57.	Such other sources or activities as the Director may determine.
		Tobacco smoking rooms and areas.
	59.	Vents from continuous emissions monitors and other analyzers.

Section 5: Emission Units, Control Devices, and Emission Points

25. Equipment Table

Fill out the Title V Equipment Table and provide it as ATTACHMENT D.

26. Emission Units

For each emission unit listed in the **Title V Equipment Table**, fill out and provide an **Emission Unit Form** as **ATTACHMENT** E.

For each emission unit not in compliance with an applicable requirement, fill out a **Schedule of Compliance** Form as ATTACHMENT F.

27. Control Devices

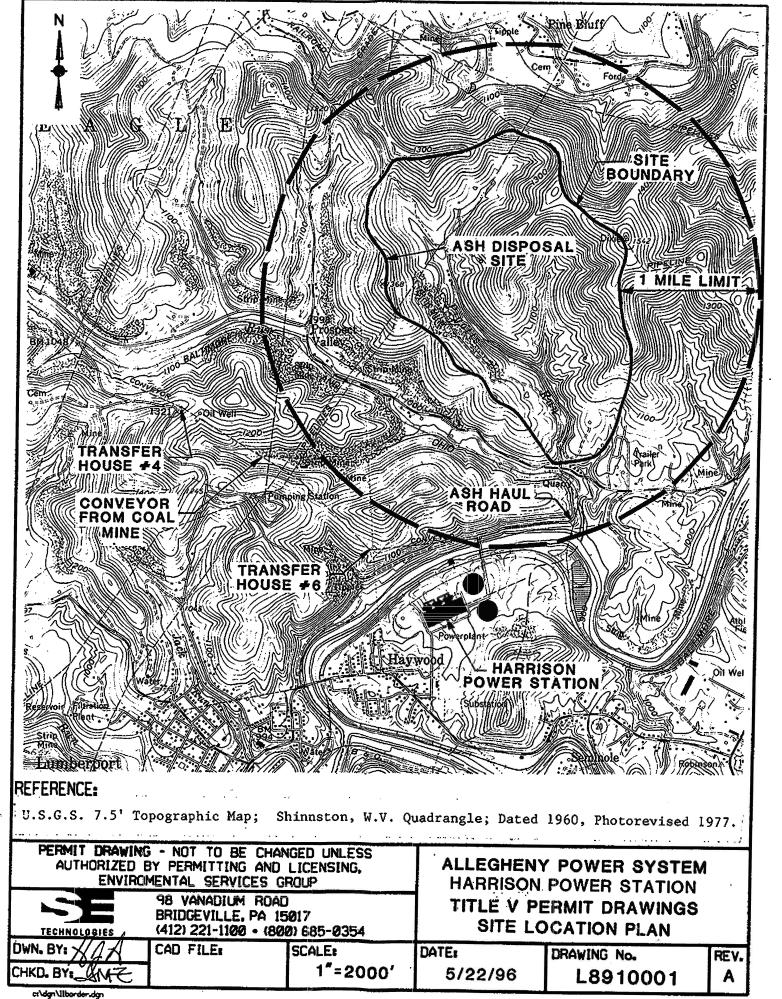
For each control device listed in the Title V Equipment Table, fill out and provide an Air Pollution Control Device Form as ATTACHMENT G.

For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the **Compliance Assurance Monitoring (CAM) Form(s)** for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as **ATTACHMENT H**.

1					
28	. Certification of Truth, Accuracy and Completenes	ss and Certification of Compliance			
No	Note: This Certification must be signed by a responsible official. The original , signed in blue ink , must be submitted with the application. Applications without an original signed certification will be considered as incomplete.				
a.	Certification of Truth, Accuracy and Completeness				
I conthis I consult this subtrespective to the subtrespective to t	ertify that I am a responsible official (as defined at 45C submission on behalf of the owners or operators of the ertify under penalty of law that I have personally exami mitted in this document and all its attachments. Based consibility for obtaining the information, I certify that the wledge and belief true, accurate, and complete. I am a	SR§30-2.38) and am accordingly authorized to make e source described in this document and its attachments ined and am familiar with the statements and information my inquiry of those individuals with primary.			
	Compliance Certification				
unu	ept for requirements identified in the Title V Application and learning the properties of the properties of the Title V Application and learning the properties of the Title V Application and I aminant sources identified in this application are in content of the Title V Application and I aminant sources identified in this application are in content of the Title V Application and I aminant sources identified in the Title V Application and I aminant sources identified in the Title V Application and I aminant sources identified in the Title V Application and I aminant sources identified in the Title V Application and I aminant sources identified in the Title V Application and I aminant sources identified in this application are in content of the Title V Application and I aminant sources identified in this application are in content of the Title V Application and I aminant sources identified in this application are in content of the Title V Application and I aminant sources identified in this application are in content of the Title V Application and I aminant sources identified in this application are in content of the Title V Application and I aminant sources identified in the Title V Application and I aminant sources identified in the Title V Application and I aminant sources identified in the I aminant sour	belief formed after reasonable inquiry, all oir			
Res	ponsible official (type or print)				
Nan	Name: Gary L. Dinzeo Title: Director, Harrison Plant				
	ature: (Must be signed and	Signature Date: il/zo/zo19			
Note	: Please check all applicable attachments included v	with this normit annipation.			
	ATTACHMENT A: Area Map	Ten emo permit application.			
\dashv					
_	ATTACHMENT C: Process Flow Diagram(s)				
XI A	ATTACHMENT D: Equipment Table				
X	ATTACHMENT E: Emission Unit Form(s)				
	ATTACHMENT F: Schedule of Compliance Form(s)				
	ATTACHMENT G: Air Pollution Control Device Form(s)				

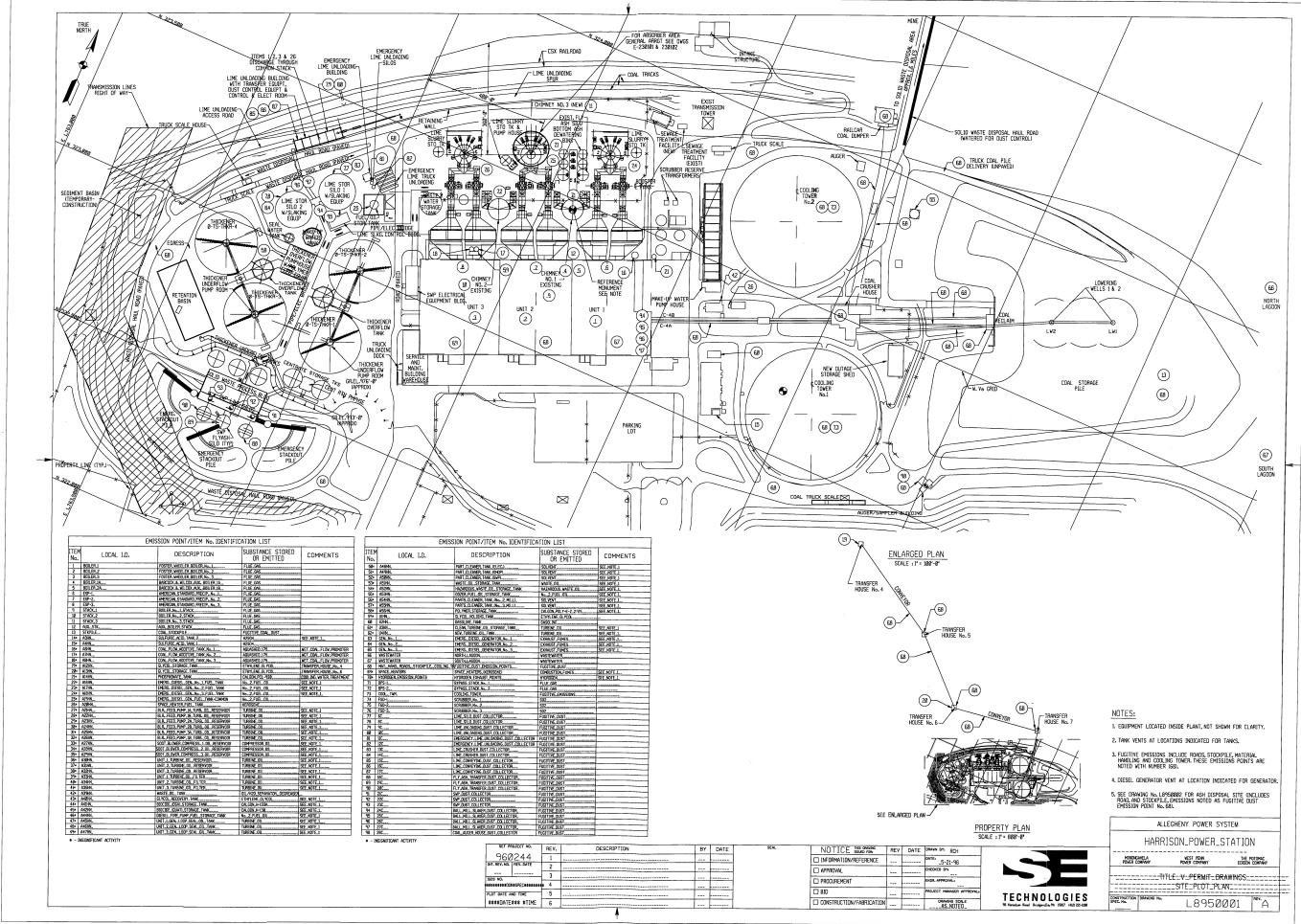
All of the required forms and additional information can be found and downloaded from, the DEP website at www.dep.wv.gov/daq, requested by phone (304) 926-0475, and/or obtained through the mail.

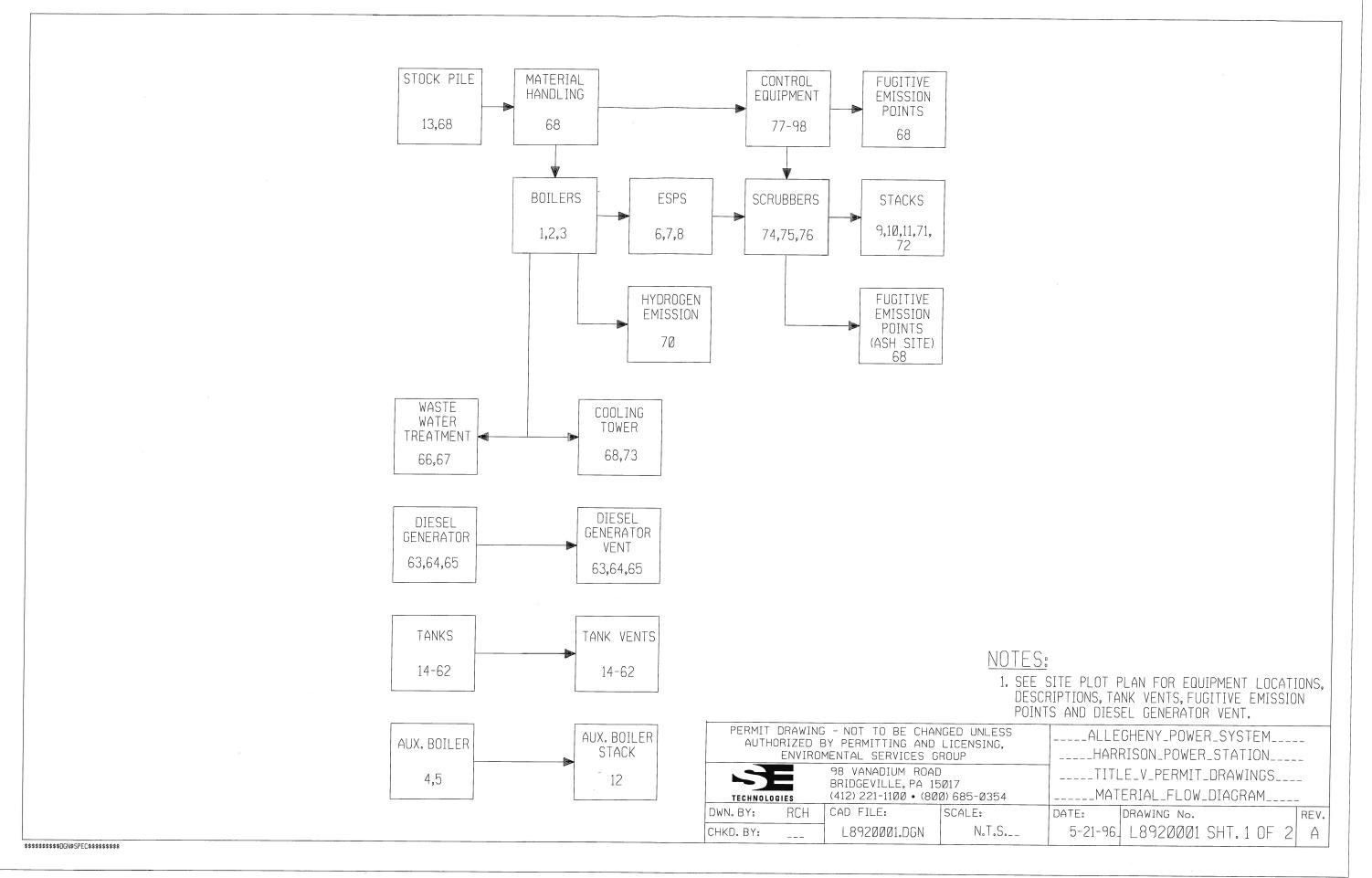
ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)



V. 129 . 1100 U.

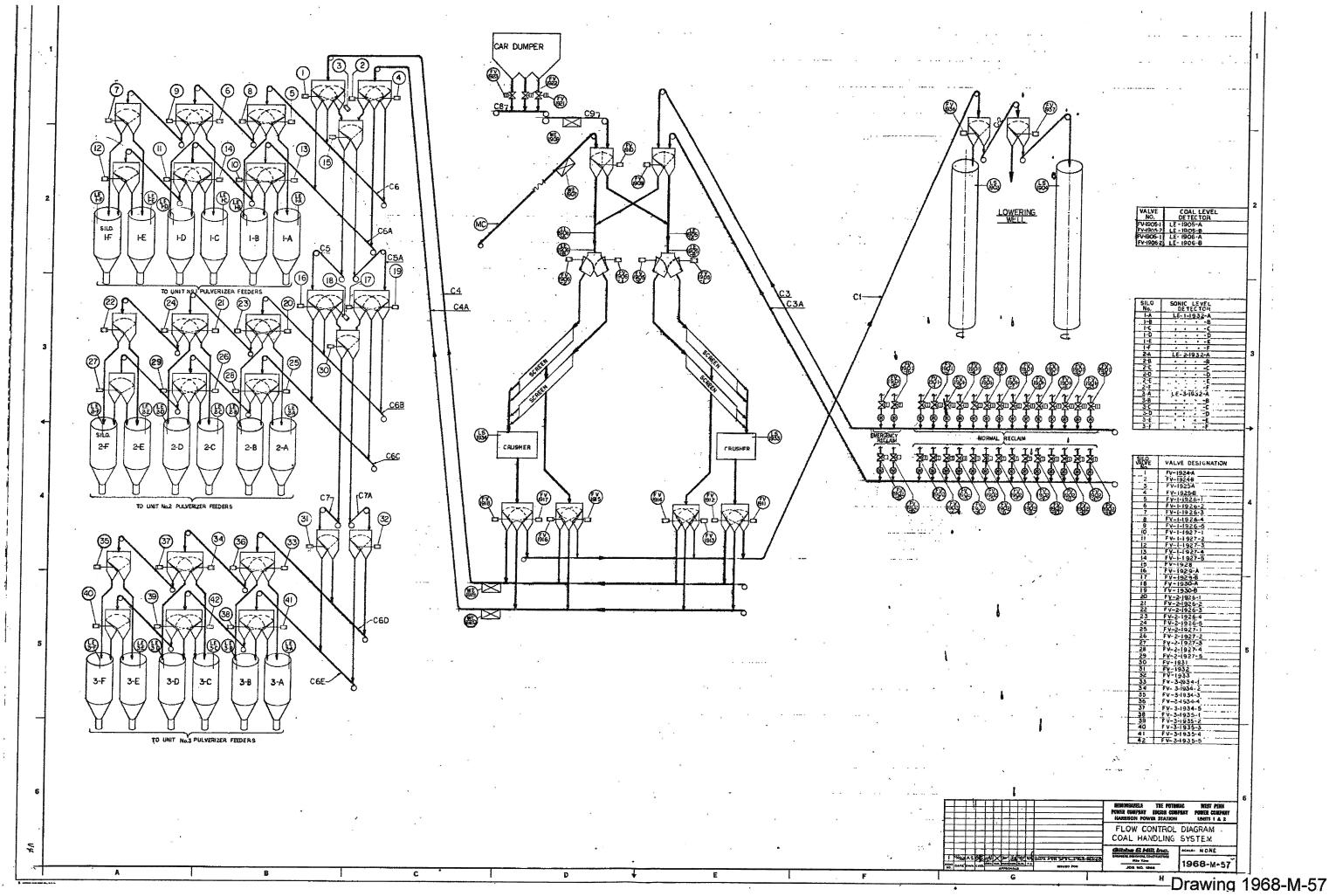
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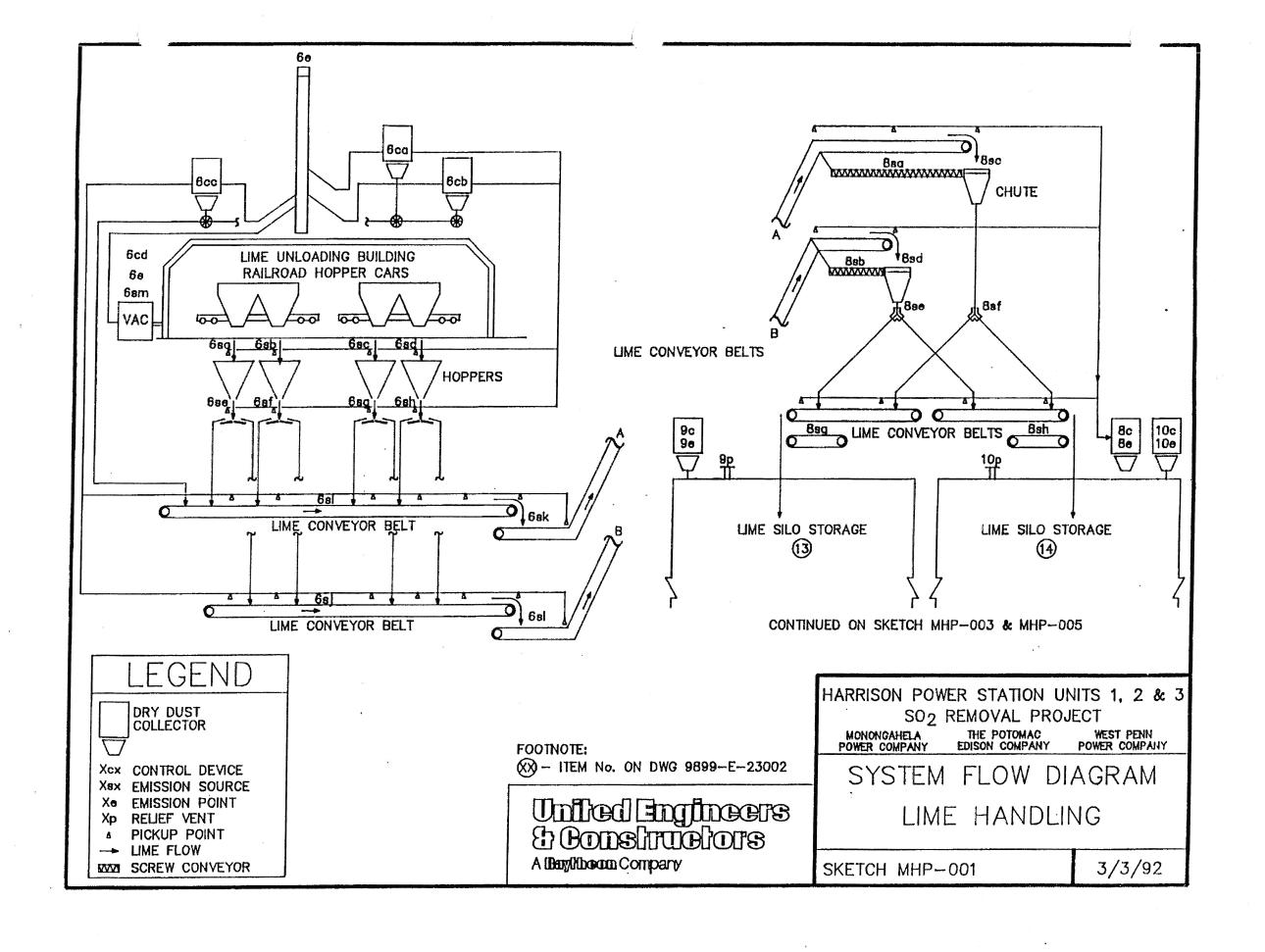


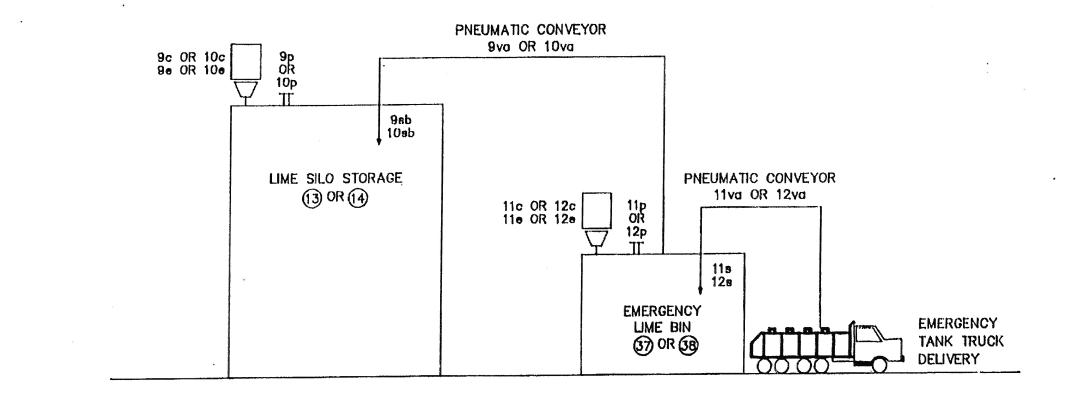


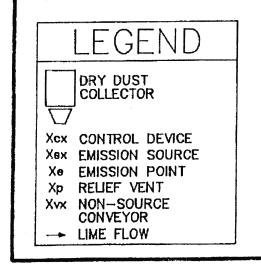
EMISSION POINT/ITEM	No. IDENTIFICATION LIST	EMISSION POINT/ITEM No. IDENTIFICATION LIST		EMISSION POINT/ITEM No. IDENTIFICATION LIST	
ITEM LOCAL I.D.	DESCRIPTION	ITEM LOCAL I.D.	DESCRIPTION	ITEM LOCAL I.D.	DESCRIPTION
1 BOILER 1	FOSTER WHEELER BOILER No. 1	34• A28HN	SOOT BLOWER COMPRESS, 2 OIL RESERVOIR	67 WASTEWATER	SOUTH LAGOON
2 BOILER 2	FOSTER WHEELER BOILER No. 2	35• A29HN	SOOT BLOWER COMPRESS, 3 OIL RESERVOIR	68 MAT. HAND, ROADS, STOCKPILE, COOLING TR.	
3 BOILER 3	FOSTER WHEELER BOILER No. 3	36° A38HN	UNIT I TURBINE OIL RESERVOIR		SPACE HEATERS (KEROSENE)
4 BOILER 1A	BABCOCK & WILCOX AUX. BOILER 1A	37• A3IHN	UNIT 2 TURBINE OIL RESERVOIR		HYDROGEN EXHAUST POINTS
5 BOILER 2A	BABCOCK & WILCOX AUX. BOILER 1B	38• A32HN	UNIT 3 TURBINE DIL RESERVOIR		BYPASS STACK No. I
6 ESP-1	AMERICAN STANDARD PRECIP. No. 1	39• A33HN	UNIT 1 TURBINE OIL FILTER		BYPASS STACK No. 2
7 ESP-2	AMERICAN STANDARD PRECIP. No. 2	40+ A34HN	UNIT 2 TURBINE OIL FILTER		COOLING TOWER
8 ESP-3	AMERICAN STANDARD PRECIP. No. 3	41* A35HN	UNIT 3 TURBINE OIL FILTER		SCRUBBER No. 1
9 STACK 1	BOILER No. 1 STACK	42° A39HN	WASTE OIL TANK		SCRUBBER No. 2
10 STACK 2	BOILER No. 2 STACK	43° A49HN	GLYCOL RECOVERY TANK		SCRUBBER No. 3
11 STACK 3	BOILER No. 3 STACK	44• A41HN	BIOCIDE (DGH) STORAGE TANK		LIME SILO DUST COLLECTOR
12 AUX, STK.	AUX. BOILER STACK	45* A42HN	BIOCIDE (QUAT) STORAGE TANK	78 8C	LIME SILO DUST COLLECTOR
13 STKPILE	COAL STOCKPILE	46• A44HN	DIESEL FIRE PUMP FUEL STORAGE TANK		LIME UNLOADING DUST COLLECTOR
14 A3HN	SULFURIC ACID TANK 2	47* A45HN	UNIT 1 GEN. LOOP SEAL OIL TANK		LIME UNLOADING DUST COLLECTOR
15• A4HN	Sulfuric acid tank 1	48* A46HN	UNIT 2 GEN. LOOP SEAL OIL TANK		EMERGENCY LIME UNLOADING DUST COLLECTOR
16+ A6HN	COAL FLOW ADDITIVE TANK No. 1	49. A47HN	UNIT 3 GEN, LOOP SEAL OIL TANK		EMERGENCY LIME UNLOADING DUST COLLECTOR
17+ A7HN	COAL FLOW ADDITIVE TANK No. 2	50. A48HN	PART CLEANER TANK (ELEC.)		LIME CRUSHER DUST COLLECTOR
18• ASHN	COAL FLOW ADDITIVE TANK No. 3	51 • A49HN	PART CLEANER TANK (SHOP)		LIME CRUSHER DUST COLLECTOR
19• AI2HN	GLYCOL STORAGE TANK	52* A50HN	PART CLEANER TANK (SWP)		LIME CONVEYING DUST COLLECTOR
20 AI3HN	GLYCOL STORAGE TANK	53• A51HN	WASTE OIL STORAGE TANK	1 <u> </u>	LIME CONVEYING DUST COLLECTOR
21• A14HN	PHOSPHONATE TANK	54• A52HN	HAZARDOUS WASTE OIL STORAGE TANK		LIME CONVEYING DUST COLLECTOR
22• A16HN	EMERG. DIESEL GEN. No. 1 FUEL TANK	55+ A53HN	DOZER FUEL OIL STORAGE TANK		FLY ASH TRANSFER DUST COLLECTOR
23• A17HN	EMERG. DIESEL GEN. No. 2 FUEL TANK	56• A54HN	PARTS CLEANER TANK (No. 2 MILL)		FLY ASH TRANSFER DUST COLLECTOR
24. AISHN	EMERG. DIESEL GEN. No. 3 FUEL TANK	57* A55HN	PARTS CLEANER TANK (No. 3 MILL)		FLY ASH TRANSFER DUST COLLECTOR
25• A19HN	EMERG, DIESEL GEN. FUEL TANK-COMMON	58. A56HN	POLYMER STORAGE TANK		SWP DUST COLLECTOR
26• A20HN	SPACE HEATER FUEL TANK	59. UIHN	GLYCOL HOLDING TANK		SWP DUST COLLECTOR
27• A21HN	BLR. FEED PUMP 1A TURB. OIL RESERVOIR	60 U2HN	GASOLINE TANK		SWP DUST COLLECTOR
28• A22HN	BLR. FEED PUMP 1B TURB. OIL RESERVOIR	61• U3HN	CLEAN TURBINE OIL STORAGE TANK		BALL MILL SLAKER DUST COLLECTOR
29• A23HN	BLR. FEED PUMP 2A TURB. OIL RESERVOIR	62+ U4HN	NEW TURBINE OIL TANK		BALL MILL SLAKER DUST COLLECTOR
30+ A24HN	BLR. FEED PUMP 2B TURB, OIL RESERVOIR	63 GEN. No. 1	EMERG, DIESEL GENERATOR No. 1		BALL MILL SLAKER DUST COLLECTOR
31+ A25HN	BLR. FEED PUMP 3A TURB. OIL RESERVOIR	64 GEN. No. 2	EMERG. DIESEL GENERATOR No. 2		BALL MILL SLAKER DUST COLLECTOR
32+ A26HN	BLR. FEED PUMP 3B TURB, OIL RESERVOIR	65 GEN. No. 3	EMERG. DIESEL GENERATOR No. 3		COAL AUGER HOUSE DUST COLLECTOR
33• A27HN	SOOT BLOWER COMPRESS. 1 OIL RESERVOIR	66 WASTEWATER	NORTH LAGOON	* - INSIGNIFICANT ACTIVITY	AAAGEA!A:

PERMIT DRAWING - NOT TO BE CHANGED UNLESS AUTHORIZED BY PERMITTING AND LICENSING, ENVIROMENTAL SERVICES GROUP ALLEGHENY POWER SYSTEM HARRISON POWER STATION 98 VANADIUM ROAD TITLE V PERMIT DRAWINGS BRIDGEVILLE, PA 15017 (412) 221-1100 • (800) 685-0354 MATERIAL FLOW DIAGRAM TECHNOLDGIES CAD FILE: DRAWING No. DWN. BY: RCH SCALE: REV. DATE: 5-21-96 L8920001 SHT. 2 OF 2 N.T.S. L8920002.DGN CHKD. BY:









FOOTNOTE:

On DWG 9899-E-230002

Undivided Engilingers

United Engineers
& Constructors
A BayMboom Company

HARRISON POWER STATION UNITS 1, 2 & 3

SO₂ REMOVAL PROJECT

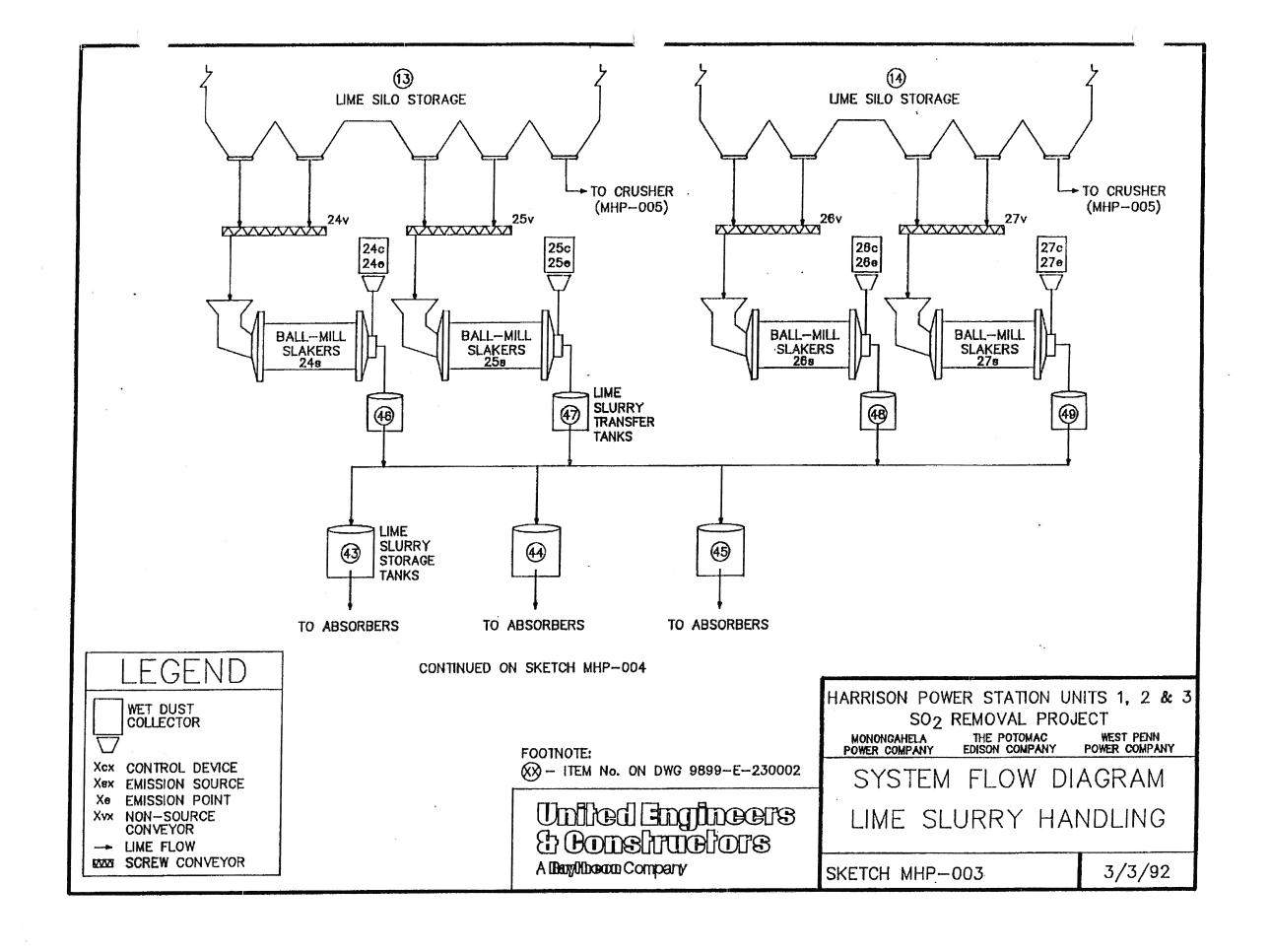
MONONGAHELA THE POTOMAC WEST PENN
POWER COMPANY EDISON COMPANY POWER COMPANY

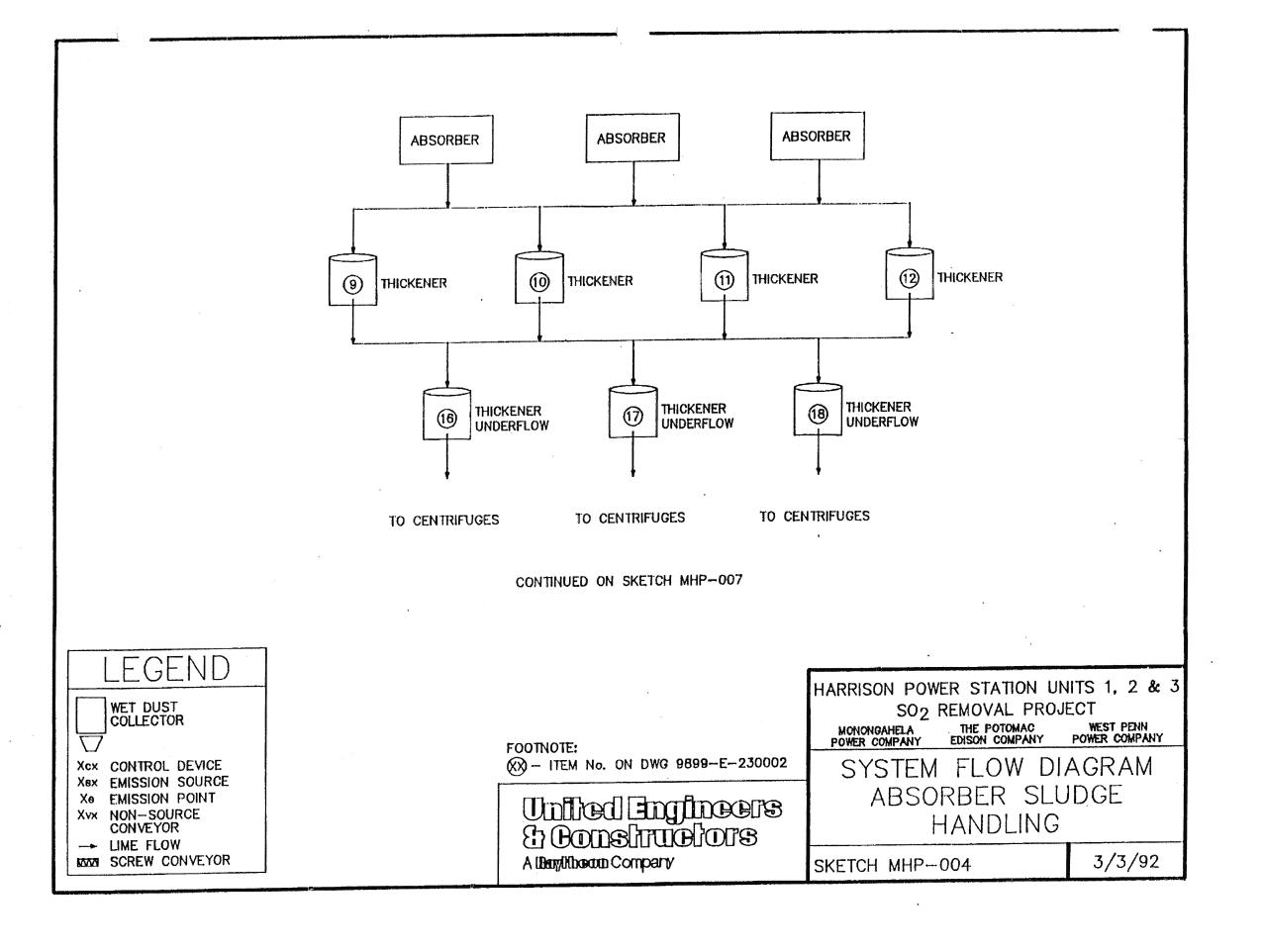
SYSTEM FLOW DIAGRAM

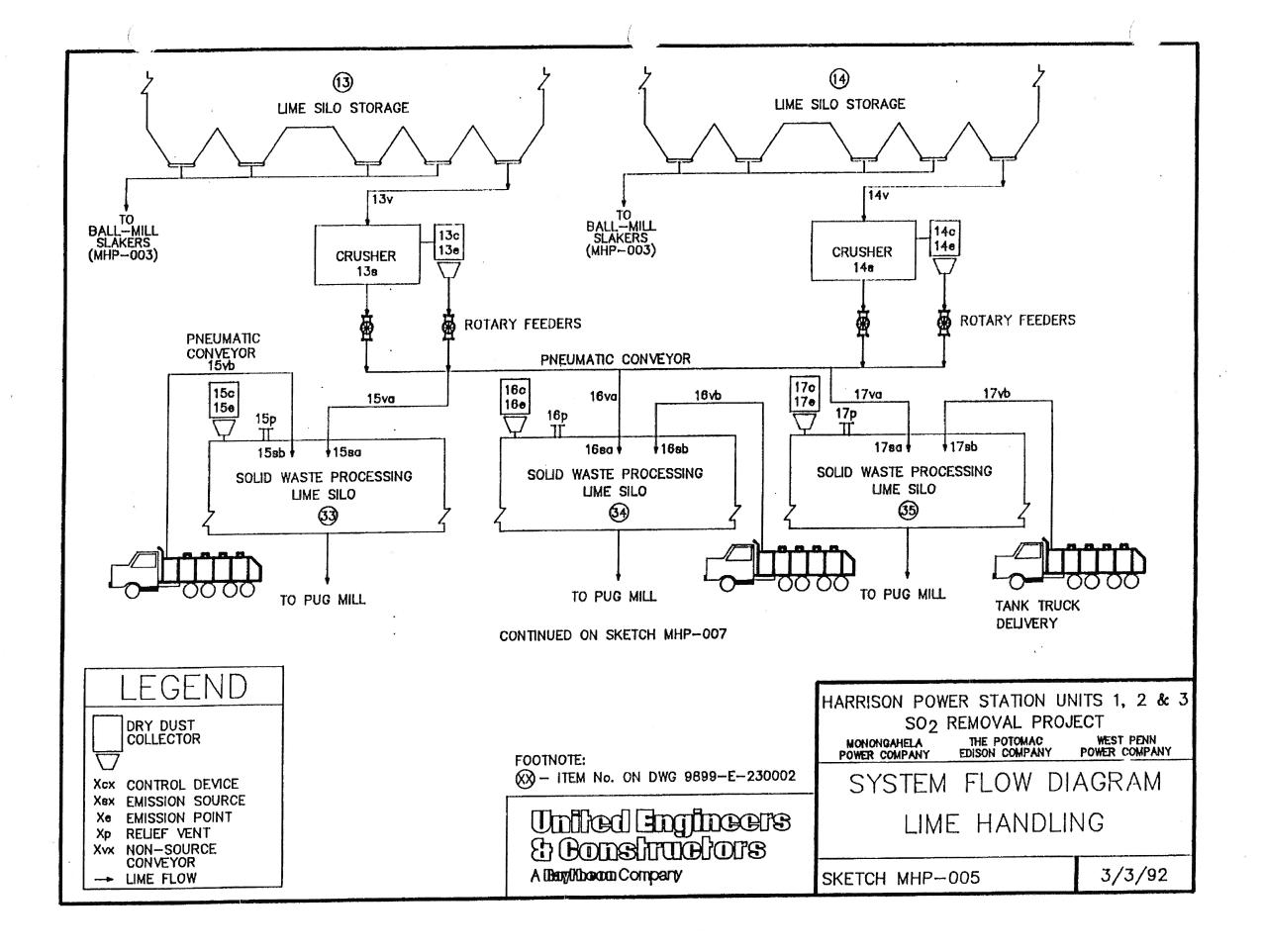
EMERGENCY LIME HANDLING

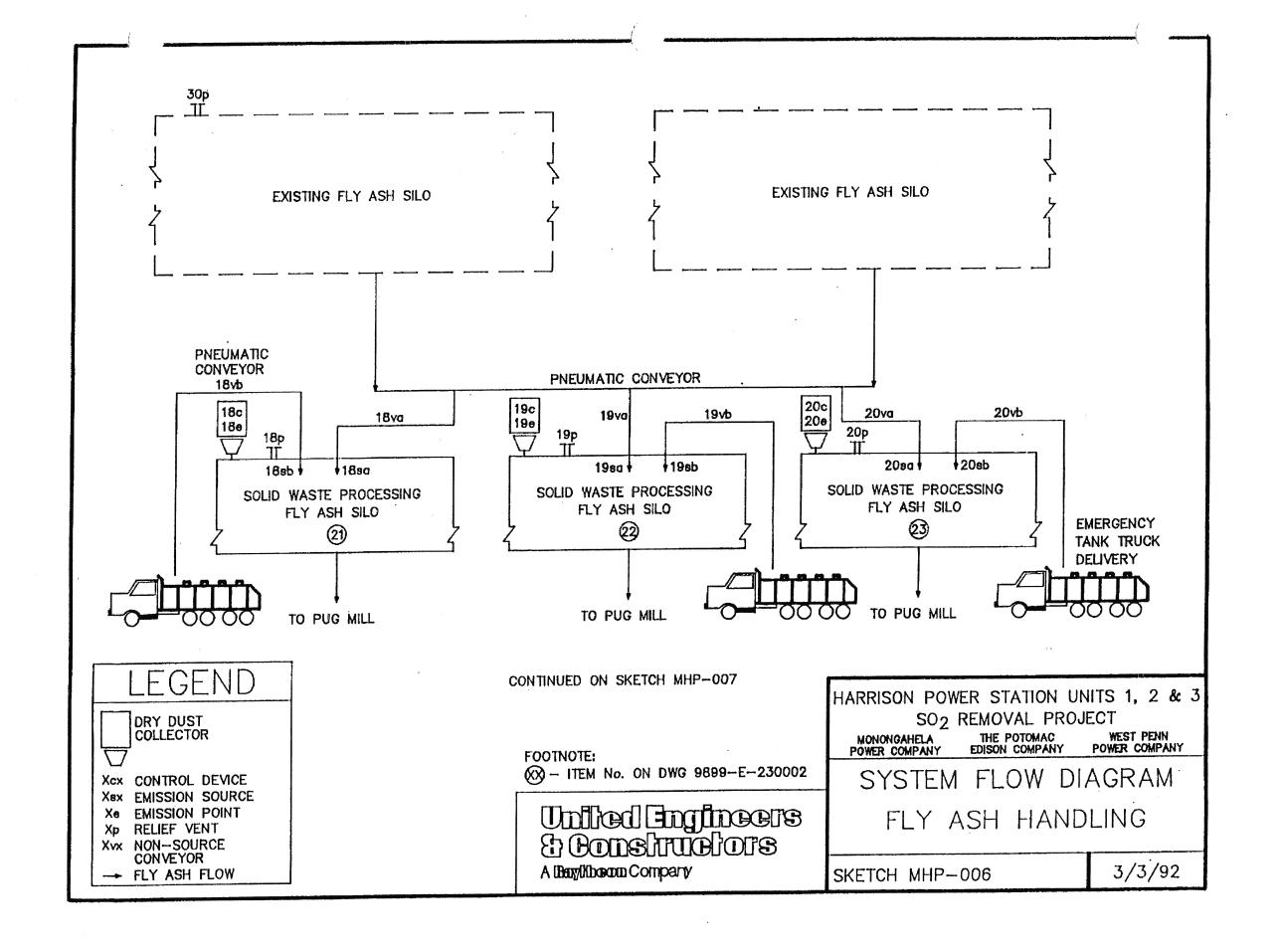
SKETCH MHP-002

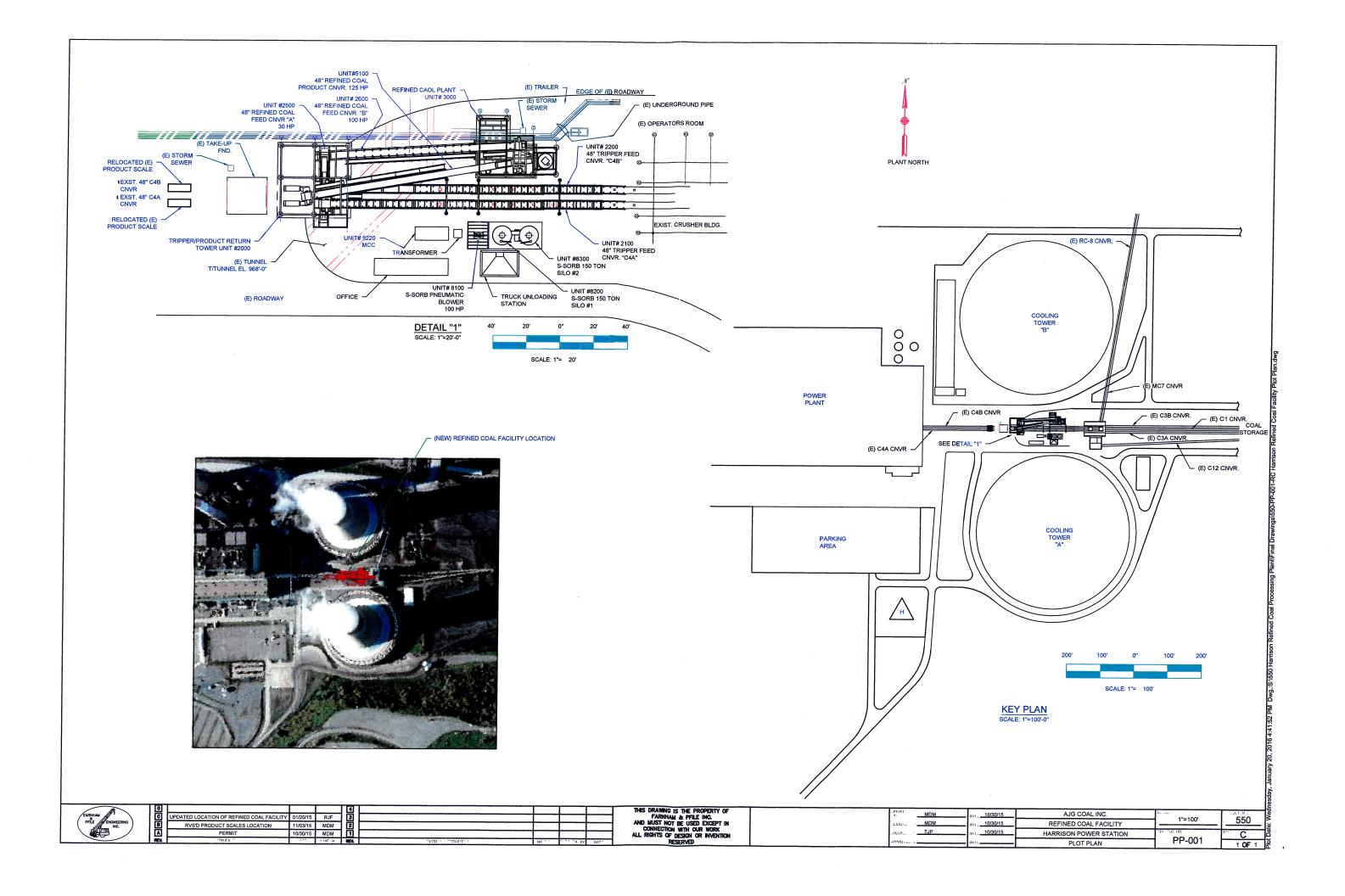
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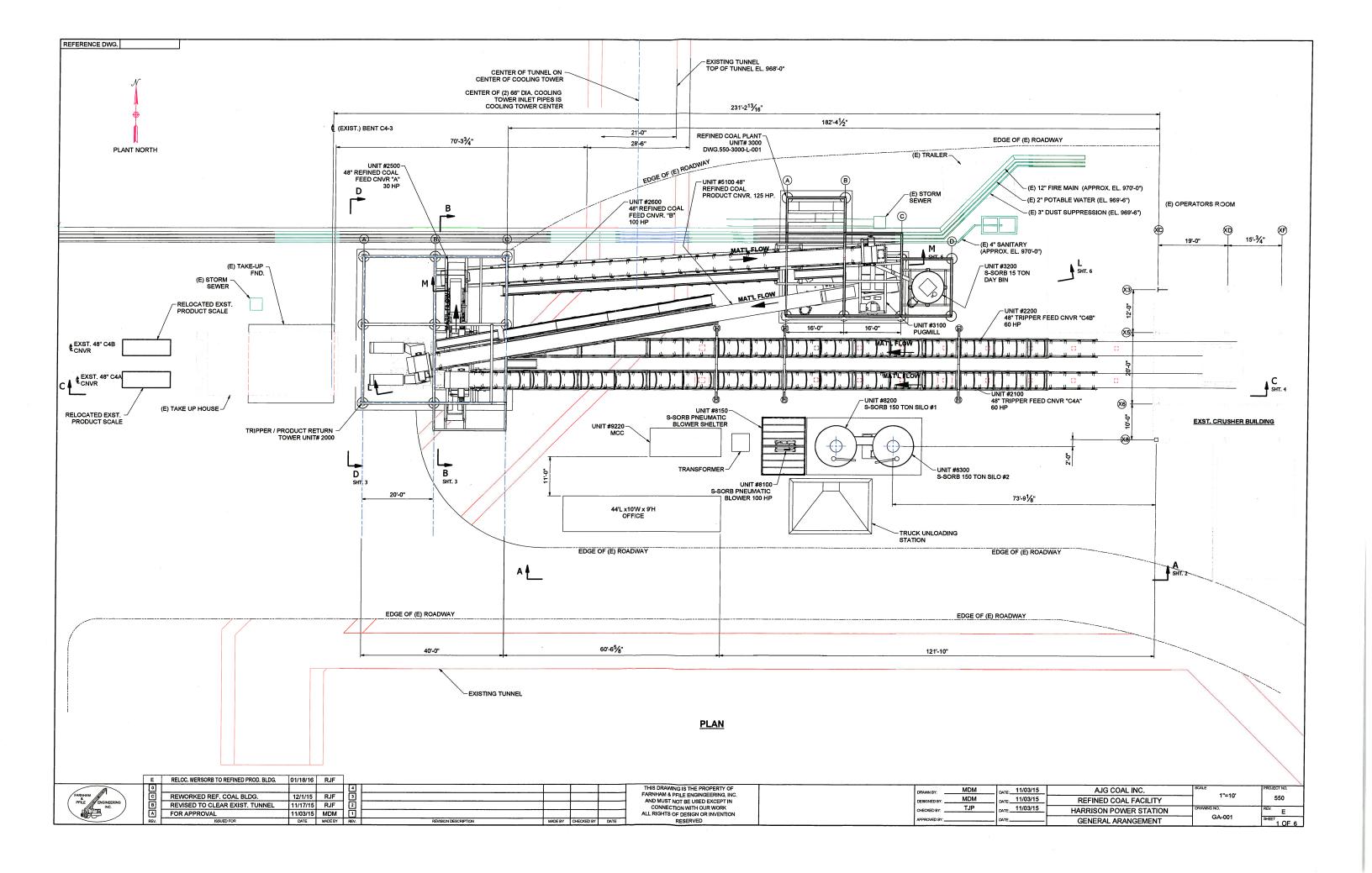


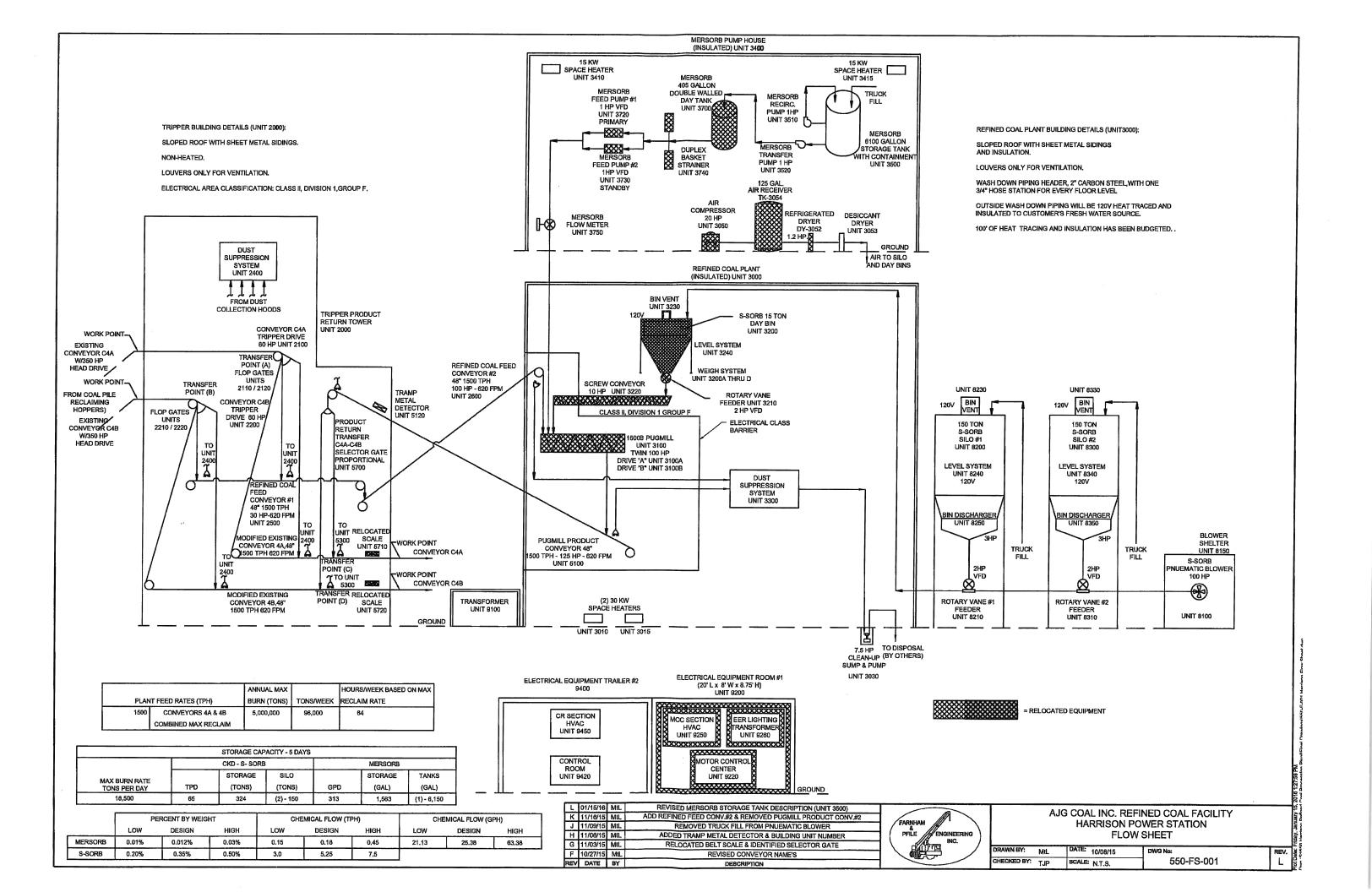












Attachment D Emission Units Table

Emission	Ei-aria	Ended to Held Description	Vasn	Dogion	Control		
Emission Unit ID ¹	Emission Point ID ¹	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device ¹		
	Combustion Sources						
Unit B1	Stack1	Harrison Unit 1	1972	6325 MMBtu/hr	ESP-1, FGD-1, SCR-1		
Unit B2	Stack2	Harrison Unit 2	1973	6325 MMBtu/hr	ESP-2, FGD-2, SCR-2		
Unit B3	Stack3	Harrison Unit 3	1974	6325 MMBtu/hr	ESP-3, FGD-3, SCR-3		
Boiler 1A	Aux Boiler Stack	Auxiliary Boiler A	1972	202.2 MMBtu/hr	N/A		
Aux Blr PB	Aux Boiler Stack	Auxiliary Boiler B	1972	202.2 MMBtu/hr	N/A		
EDG1	EDG1	Emergency Generator No. 1	1971	800 kW	N/A		
EDG2	EDG2	Emergency Generator No. 2	1971	800 kW	N/A		
EDG3	EDG3	Emergency Generator No. 3	1994	350 kW	N/A		
FP-01	FP-01	Emergency Diesel Fire Pump	2019	510 bhp	N/A		
FP-02	FP-02	Emergency Diesel Fire Pump	1971	335 bhp	N/A		
EG-1	EG-1	Wetlands Pump House Emergency Generator	2012	145 HP/108.2 kW	N/A		
EG-2	EG-2	Leachate Collection/Conveyance System Emergency Generator	2019	605 bhp	N/A		
		Material Handling S	ources				
LRCH	LRCH	Lime Rail Car Unloading Hoppers	1994	380 TPH	6ca, 6cb, 6cc, 6cd		
6si, 6sj	6si, 6sj	Lime Unloading Conveyor and Transfer Points	1994	450 TPH	6ca, 6cb, 6cc		
8sa, 8sb, 8sg, 8sh	8sa, 8sb, 8sg, 8sh	Lime Transfer and Storage Conveyors with Associated Dribble Conveyors	1994	450 TPH (Trans.) 900 TPH (Stor.)	8c		
13	13	Lime Storage Silo	1994	101,788 Tons	9c		
14	14	Lime Storage Silo	1994	101,788 Tons	10c		
11va, 12va	11va, 12va	Emergency Lime Pneumatic Delivery Conveyor (from trucks)	1994	75 Tons (each)	Full Enclosure		
37	37	Emergency Lime Storage Silo	1994	150 Tons	11c		
38	38	Emergency Lime Storage Silo	1994	150 Tons	12c		
9va, 10va	9va, 10va	Emergency Lime Pneumatic Conveyor (from Emergency Lime to Lime Storage Silos)	1994	627,546 TPY	Full Enclosure		

Emission Unit ID ¹	Emission Point ID ¹	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device ¹
24v, 25v, 26v, 27v	24v, 25v, 26v, 27v	Ball-Mill Delivery Screw Conveyors	1994	30 TPH	Full Enclosure
24s, 25s, 26s, 27s	24s, 25s, 26s, 27s	Ball-Mill Slakers	1994	30 TPH	24c, 25c, 26c, 27c
15va, 16va, 17va	15va, 16va, 17va	Solid Waste Processing Lime Silo (SWPLS) Loading Pneumatic Conveyors from Lime Crushers	1994	25 TPH	Full Enclosure
15vb, 16vb, 17vb	15vb, 16vb, 17vb	Solid Waste Processing Lime Silo (SWPLS) Loading Pneumatic Conveyors from trucks	1994	25 TPH	Full Enclosure
33	33	Solid Waste Processing Lime Silo	1994	388 Tons	15c
34	34	Solid Waste Processing Lime Silo	1994	388 Tons	16c
35	35	Solid Waste Processing Lime Silo	1994	388 Tons	17c
18va, 19va, 20va	18va, 19va, 20va	Solid Waste Processing Fly Ash Silo (SWPFAS) Loading Pneumatic Conveyors from Fly Ash Silos	1994	120 TPH	Full Enclosure
18vb, 19vb, 20vb	18vb, 19vb, 20vb	Solid Waste Processing Fly Ash Silo (SWPFAS) Loading Pneumatic Conveyors from trucks	1994	120 TPH	Full Enclosure
21	21	Solid Waste Processing Fly Ash Silo	1994	10,479 Tons	18c
22	22	Solid Waste Processing Fly Ash Silo	1994	10,479 Tons	19c
23	23	Solid Waste Processing Fly Ash Silo	1994	10,479 Tons	20c
21va, 22va, 23va	21va, 22va, 23va	Solid Waste Processing Fly Ash Screw Conveyors	1994	70 TPH	Full Enclosure
21vb, 22vb, 23vb	21vb, 22vb, 23vb	Solid Waste Processing Lime Screw Conveyors	1994	10 TPH	Full Enclosure
21vc, 22vc, 23vc	21vc, 22vc, 23vc	Solid Waste Processing Lime/Fly Ash Screw Conveyors	1994	80 TPH	Full Enclosure
21vd, 22vd, 23vd	21vd, 22vd, 23vd	Solid Waste Processing Lime/Fly Ash Screw Conveyors	1994	80 TPH	Full Enclosure
37v, 38v	37v, 38v	Centrifuge Cake Screw Conveyors	1994	150 TPH	Full Enclosure
21s	21s	Solid Waste Processing Pug Mill	1994	600 TPH	21c
22s	22s	Solid Waste Processing Pug Mill	1994	600 TPH	22c
23s	23s	Solid Waste Processing Pug Mill	1994	600 TPH	23c
RCCD	RCCD	Rail Car Coal Dumpers	1971	1500 TPH	Water Spray
ST-1	ST-1	Coal Stockpile	1971	1,000,000 Tons	Water Spray

insignmeant activities in Section 4, item 24 of the General Politis)					
Emission Unit ID ¹	Emission Point ID ¹	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device ¹
ST-2	ST-2	Ash Disposal Areas	1971	64,320,000 Tons	Water Spray
BH Conv	BH Conv	Boiler House Conveyors (S-1a/b, S-2a/b, S-3a/b, C-5a/b, C-6a/b)	1971	1500 TPH	Partial Enclosure
C-12	C-12	Conveyor from Surge Bin to Lowering Well #2	1971	1500 TPH	Partial Enclosure
C-1	C-1	Conveyor from Crusher House to Lowering Well #2	1971	1500 TPH	Partial Enclosure
C-3a/b	C-3a/b	Conveyor From Coal Reclaim to Crusher House Transfer Bin	1971	1500 TPH	Partial Enclosure
C-4a/b	C-4a/b	Conveyor From Crusher House to Boiler House Conveyors	1971	1500 TPH	Partial Enclosure
RC-7	RC-7	Conveyor From Rail Dumper to RC-8	1971	1500 TPH	Partial Enclosure
RC-8	RC-8	Conveyor From RC-7 to Crusher House	1971	1500 TPH	Partial Enclosure
MC-7	MC-7	Conveyor From Mine to Crusher House	1971	1500 TPH	Partial Enclosure
C-2b	C-2b	Conveyor From Chute to Lowering Well #1	1971	800 TPH	Partial Enclosure
C-10	C-10	Internal Crusher House Conveyor to Surge Bin	1971	1500 TPH	Partial Enclosure
C-11	C-11	Internal Crusher House Conveyor from Surge Bin	1979	1500 TPH	Partial Enclosure
CRU-01	CRU-01	Coal Crusher	1971	1500 TPH	Full Enclosure, Water Spray
CRU-02	CRU-02	Coal Crusher	1972	1500 TPH	Full Enclosure, Water Sprav
CRU-03	CRU-03	Coal Crusher	1977	1500 TPH	Full Enclosure, Water Spray
UR-1	UR-1	Urea Storage Silos (4)	1994	25 TPH (each)	28c, 29c, 30c, 31c
UR-2	UR-2	Urea Feed Hoppers (2)	1994	16 TPH (each)	32c, 33c
		Miscellaneous Sou	rces		
COOL-01	Cooling Towers (2)	Natural Draft Cooling Towers (2)	1971	585,000 gpm	N/A
PVR	Paved Roads	Plant Paved Roads	N/A	N/A	N/A
UPVR	Unpaved Roads	Plant Unpaved Roads	N/A	N/A	N/A

Emission Unit ID ¹	Emission Point ID ¹	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device ¹
U2HN	U2HN	Underground Gasoline Storage Tank	1990	2000 gallons	N/A
WASTE- WATER	Harrison Wastewater Operations	Harrison Wastewater Treatment Operations (Insignificant Activity)	N/A	6,084.55 MMgal/year	N/A
Insig Tanks	N/A	Insignificant Storage Tanks (Insignificant Activity)	N/A	N/A	N/A

	Miscellaneous Sources (Rapid Discharge Rail Unloading) *				
Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
RDRU	EP-1	Rapid Discharge Rail Unloader to Belt Feeder	TBD	3,000 TPH	Chemical Fogging System
BF-01	EP-2	Unloading Belt Feeder	TBD	3,000 TPH	Enclosure/CFS
CV-01	EP-3	Load-out Conveyor	TBD	3,000 TPH	Enclosure/CFS
CV-02	EP-4	Conveyor	TBD	3,000 TPH	Enclosure/CFS
CV-03	EP-5	Conveyor to Transfer Tower	TBD	3,000 TPH	Enclosure/CFS
CV-04	EP-6	Conveyor to Stacking Tubes	TBD	3,000 TPH	Enclosure/CFS
ST-003	EP-7	Stacking Tube/Coal Pile	TBD	3,000 TPH	None

^{*}These sources were included in Permit R13-2988 but have not yet been installed as of the date of this application

Attachment E Emission Unit Forms

Combustion Sources

ATTACHMENT E - Emission Unit Form Emission Unit Description Emission unit ID number: Emission unit name: List any control devices associated with this emission unit. Unit B1 Harrison Unit 1 ESP-1, FGD-1, SCR-1 Provide a description of the emission unit (type, method of operation, design parameters, etc.): 6,325 MMBtu/hr Foster Wheeler opposed wall fired boiler. The primary fuel is coal with natural used for start-up and stabilization. The flue gas emissions are controlled with an ESP for particulate control, a wet scrubber for SO₂ control and low-NOx burners and an SCR for NOx control. **Model number:** Serial number: **Manufacturer:** Foster and Wheeler **Construction date: Installation date: Modification date(s):** 1972 Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 6,325 MMBtu/hr **Maximum Hourly Throughput: Maximum Annual Throughput: Maximum Operating Schedule:** 263.54 tons/hour coal 2,308,625 tons/year coal 8,760 hours per year Fuel Usage Data (fill out all applicable fields) **Does this emission unit combust fuel?** _X_Yes ____ No If ves, is it? X Indirect Fired __ Direct Fired Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners: 6,325 MMBtu/hr List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. Bituminous coal - 263.54 tons/hr; 2,308,625 tons/yr Describe each fuel expected to be used during the term of the permit. BTU Value Fuel Type Max. Sulfur Content Max. Ash Content 4.0% N/A Coal (Primary) ~12,000 Btu/lb Natural Gas (Start-Up/Stabilization) N/A N/A 1,020 Btu/scf #2 Fuel Oil (Start-Up/Stabilization) N/A N/A 140,000 Btu/gal

Emissions Data			
Criteria Pollutants Potential Emissions			
Criteria i onutants	РРН	TPY	
Carbon Monoxide (CO) ^a	131.8	577.2	
Nitrogen Oxides (NO _X) ^b	3,162.5	13,851.8	
Lead (Pb) ^c	0.0408	0.179	
Particulate Matter (PM _{2.5}) ^a	161.3	706.4	
Particulate Matter (PM ₁₀) ^a	224.5	983.5	
Total Particulate Matter (TSP) ^d	316.3	1,385.2	
Condensable PM ^g	126.5	554.1	
Sulfur Dioxide (SO ₂) ^e	32,384.0	141,841.9	
Volatile Organic Compounds (VOC) ^a	15.8	69.3	
Hazardous Air Pollutants	Potential	Emissions	
Hazardous Air Fondtants	PPH	TPY	
Antimony ^c	0.00253	0.011	
Arsenic ^c	0.0417	0.183	
Beryllium ^c	0.00221	0.0097	
Cadmium ^c	0.00506	0.0222	
Chromium ^c	0.0534	0.234	
Cobalt ^c	0.0158	0.0693	
Manganese ^c	0.0679	0.297	
Mercury ^c	0.0173	0.0759	
Nickel ^c	0.0512	0.224	
Selenium ^c	0.18	0.79	
Hydrochloric Acid (HCl) ^c	6.72	29.45	
Hydrogen Flourine (HF) ^c	2.31	10.11	
Sulfuric Acid (H ₂ SO ₄) ^c	249.99	1094.95	
Dioxin Compounds ^c	.00000464	.00000203	
Polycyclic Organics ^c	.0132	.0576	
Acetaldehyde ^a	0.15	0.658	
Acrolein ^a	0.076	0.335	
Benzene ^a	0.343	1.501	
Benzyl chloride ^a	0.184	0.808	
Cyanide Compounds ^a	0.659	2.886	
Formaldehyde ^a	0.063	0.277	
Isophorone ^a	0.153	0.670	
Methyl Bromide ^a	0.042	0.185	
Methyl Chloride ^a	0.140	0.612	
Methyl Ethyl Ketone ^a	0.103	0.450	
Methyl Hydrazine ^a	0.045	0.196	
Methylene chloride ^a	0.076	0.335	
Propionaldehyde ^a	0.100	0.439	
Toluene ^a	0.063	0.277	

Emissions Data (Continued)					
Regulated Pollutants other than	Potential Emissions				
Criteria and HAP	PPH	TPY			
CO ₂ ^a	1,591,791.7	6,972,047.5			
Methane ^f	14.0	61.2			
N_2O^f	22.3	97.8			

- a Emissions based on AP-42, Section 1.1 (Revised 9/98).
- ^b Emissions based on 0.50 lbs/MMBtu NO_x limit from current Phase II Acid Rain Permit.
- ^c Emissions based on Electric Power Research Institute (EPRI) LARK-TRIPP RY2006 software.
- ^d Emissions based on 45 CSR 2-4.1a TSP limit of 0.05 lbs/MMBtu.
- ^e Emissions based on 5.12 lbs/MMBtu SO₂ limit per 45 CSR 10.
- ^f Emissions based on 40 CFR Part 98, Subpart C, Tables C-1 and C-2.
- ⁹ Emissions based on AP-42, Table 1.1-5, "All PM controls combined with an FGD control" Supporting emission calculation information is provided in Appendix A.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Combustion Emissions Unit ("C") applicable requirements are listed below as references to an Appendix containing the actual requirements. Each applicable requirement code below is linked by a reference number (e.g. "C-1") to detailed information for that requirement contained in Table C-AR. Each requirement in Table C-AR then references appropriate Combustion Testing/Recordkeeping/Reporting ("CTRR") requirements in Table C-TRR.

Applicable requirement codes below are actively hyperlinked to Table C-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units

C-1	C-11	
C-2	Error! Ref	erence source not found.
C-4	C-13	C-20
C-6	C-14	C-21
C-8	C-16	C-22
C-9	C-17	

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table C-TRR and are associated with the Applicable Requirements for this emissions unit within Table C-TRR.

Are you in compliance with all applicable requirements for this emission unit? <u>X</u> Yes ____No If no, complete the **Schedule of Compliance Form** as **ATTACHMENT** F.

ATTACHMENT E - Emission Unit Form Emission Unit Description Emission unit ID number: List any control devices associated **Emission unit name:** with this emission unit. Unit B2 Harrison Unit 2 ESP-2, FGD-2, SCR-2 Provide a description of the emission unit (type, method of operation, design parameters, etc.): 6,325 MMBtu/hr Foster Wheeler opposed wall fired boiler. The primary fuel is coal with natural used for start-up and stabilization. The flue gas emissions are controlled with an ESP for particulate control, a wet scrubber for SO₂ control and low-NOx burners and an SCR for NOx control. **Model number:** Serial number: Manufacturer: Foster and Wheeler **Construction date: Installation date: Modification date(s):** 1973 Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 6,325 MMBtu/hr **Maximum Hourly Throughput: Maximum Annual Throughput: Maximum Operating Schedule:** 263.54 tons/hour coal 2,308,625 tons/year coal 8760 hours per year Fuel Usage Data (fill out all applicable fields) If yes, is it? **Does this emission unit combust fuel?** X Yes No X Indirect Fired Direct Fired Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners: 6,325 MMBtu/hr List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. Bituminous coal - 263.54 tons/hr; 2,308,625 tons/yr Describe each fuel expected to be used during the term of the permit. Max. Sulfur Content Max. Ash Content BTU Value Fuel Type Coal (Primary) 4.0% N/A ~12,000 Btu/lb Natural Gas (Start-Up/Stabilization) N/A N/A 1,020 Btu/scf #2 Fuel Oil (Start-Up/Stabilization) N/A N/A 140.000 Btu/gal

Emissions Data		
Criteria Pollutants	Potential	Emissions
Criteria i onutants	PPH	TPY
Carbon Monoxide (CO) ^a	131.8	577.2
Nitrogen Oxides (NO _X) ^b	3162.5	13,851.8
Lead (Pb) ^c	0.0408	0.179
Particulate Matter (PM _{2.5}) ^a	161.3	706.4
Particulate Matter (PM ₁₀) ^a	224.5	983.5
Total Particulate Matter (TSP) ^d	316.3	1385.2
Condensable PMg	126.5	554.1
Sulfur Dioxide (SO ₂) ^e	32,384.0	141,841.9
Volatile Organic Compounds (VOC) ^a	15.8	69.3
Hazardous Air Pollutants	Potential	Emissions
Hazardous Air Pollutants	PPH	TPY
Antimony ^c	0.00253	0.011
Arsenic ^c	0.0417	0.183
Beryllium ^c	0.00221	0.0097
Cadmium ^c	0.00506	0.0222
Chromium ^c	0.0534	0.234
Cobalt ^c	0.0158	0.0693
Manganese ^c	0.0679	0.297
Mercury ^c	0.0173	0.0759
Nickel ^c	0.0512	0.224
Selenium ^c	0.18	0.79
Hydrochloric Acid (HCl) ^c	6.72	29.45
Hydrogen Flourine (HF) ^c	2.31	10.11
Sulfuric Acid (H ₂ SO ₄) ^c	249.99	1094.95
Dioxin Compounds ^c	.000000464	.00000203
Polycyclic Organics ^c	.0132	.0576
Acetaldehyde ^a	0.15	0.658
Acrolein ^a	0.076	0.335
Benzene ^a	0.343	1.501
Benzyl chloride ^a	0.184	0.808
Cyanide Compounds ^a	0.659	2.886
Formaldehyde ^a	0.063	0.277
Isophorone ^a	0.153	0.670
Methyl Bromide ^a	0.042	0.185
Methyl Chloride ^a	0.140	0.612
Methyl Ethyl Ketone ^a	0.103	0.450
Methyl Hydrazine ^a	0.045	0.196
Methylene chloride ^a	0.076	0.335
Propionaldehyde ^a	0.100	0.439
Toluene ^a	0.063	0.277

Emissions Data (Continued)					
Regulated Pollutants other than	Potential Emissions				
Criteria and HAP	РРН	TPY			
CO ₂ ^a	1,591,791.7	6,972,047.5			
Methane ^a	14.0	61.2			
N ₂ O ^a	22.3	97.8			

- ^a Emissions based on AP-42, Section 1.1 (Revised 9/98).
- ^b Emissions based on 0.50 lbs/MMBtu NO_x limit from current Phase II Acid Rain Permit.
- ^c Emissions based on Electric Power Research Institute (EPRI) LARK-TRIPP RY2006 software.
- ^d Emissions based on 45 CSR 2-4.1a TSP limit of 0.05 lbs/MMBtu.
- e Emissions based on 5.12 lbs/MMBtu SO₂ limit per 45 CSR 10.
- ^f Emissions based on 40 CFR Part 98, Subpart C, Tables C-1 and C-2.
- ⁹ Emissions based on AP-42, Table 1.1-5, "All PM controls combined with an FGD control" Supporting emission calculation information is provided in Appendix A.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Combustion Emissions Unit ("C") applicable requirements are listed below as references to an Appendix containing the actual requirements. Each applicable requirement code below is linked by a reference number (e.g. "C-1") to detailed information for that requirement contained in Table C-AR. Each requirement in Table C-AR then references appropriate Combustion Testing/Recordkeeping/Reporting ("CTRR") requirements in Table C-TRR.

Applicable requirement codes below are actively hyperlinked to Table C-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units

C-1	C-11		
C-2	Error! Ref	erence source not found	ı.
C-4	C-13	C-20	
C-6	C-14	C-21	
C-8	C-16	C-22	
C-9	C-17		

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table C-TRR and are associated with the Applicable Requirements for this emissions unit within Table C-TRR.

Are you in compliance with all applicable requirements for this emission unit? \underline{X} Yes ____No If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form Emission Unit Description Emission unit ID number: List any control devices associated **Emission unit name:** with this emission unit. Unit B3 Harrison Unit 3 ESP-3, FGD-3, SCR-3 Provide a description of the emission unit (type, method of operation, design parameters, etc.): 6,325 MMBtu/hr Foster Wheeler opposed wall fired boiler. The primary fuel is coal with natural gas used for start-up and stabilization. The flue gas emissions are controlled with an ESP for particulate control, a wet scrubber for SO₂ control and low-NOx burners and an SCR for NOx control. **Model number:** Serial number: Manufacturer: Foster and Wheeler **Construction date: Installation date: Modification date(s):** 1974 Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 6,325 MMBtu/hr **Maximum Hourly Throughput: Maximum Annual Throughput: Maximum Operating Schedule:** 263.54 tons/hour coal 2,308,625 tons/year coal 8760 hours per year Fuel Usage Data (fill out all applicable fields) If yes, is it? **Does this emission unit combust fuel?** X Yes No X Indirect Fired Direct Fired Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners: 6,325 MMBtu/hr List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. Bituminous coal - 263.54 tons/hr; 2,308,625 tons/yr Describe each fuel expected to be used during the term of the permit. Max. Sulfur Content Max. Ash Content BTU Value Fuel Type Coal (Primary) 4.0% N/A ~12,000 Btu/lb Natural Gas (Start-Up/Stabilization) N/A N/A 1,020 Btu/scf #2 Fuel Oil (Start-Up/Stabilization) N/A N/A 140.000 Btu/gal

Emissions Data		
Criteria Pollutants		Emissions
2.1.21.(20)	PPH	TPY
Carbon Monoxide (CO) ^a	131.8	577.2
Nitrogen Oxides (NO _X) ^b	3162.5	13,851.8
Lead (Pb) ^c	0.0408	0.179
Particulate Matter (PM _{2.5}) ^a	161.3	706.4
Particulate Matter (PM ₁₀) ^a	224.5	983.5
Total Particulate Matter (TSP) ^d	316.3	1385.2
Condensable PM ^g	126.5	554.1
Sulfur Dioxide (SO ₂) ^e	32,384.0	141,841.9
Volatile Organic Compounds (VOC) ^a	15.8	69.3
Hazardous Air Pollutants	Potential	Emissions
11aZai uous Aii Tonutants	PPH	TPY
Antimony ^c	0.00253	0.011
Arsenic ^c	0.0417	0.183
Beryllium ^c	0.00221	0.0097
Cadmium ^c	0.00506	0.0222
Chromium ^c	0.0534	0.234
Cobalt ^c	0.0158	0.0693
Manganese ^c	0.0679	0.297
Mercury ^c	0.0173	0.0759
Nickel ^c	0.0512	0.224
Selenium ^c	0.18	0.79
Hydrochloric Acid (HCl) ^c	6.72	29.45
Hydrogen Flourine (HF) ^c	2.31	10.11
Sulfuric Acid (H ₂ SO ₄) ^c	249.99	1094.95
Dioxin Compounds ^c	.00000464	.00000203
Polycyclic Organics ^c	.0132	.0576
Acetaldehyde ^a	0.15	0.658
Acrolein ^a	0.076	0.335
Benzene ^a	0.343	1.501
Benzyl chloride ^a	0.184	0.808
Cyanide Compounds ^a	0.659	2.886
Formaldehyde ^a	0.063	0.277
Isophorone ^a	0.153	0.670
Methyl Bromide ^a	0.042	0.185
Methyl Chloride ^a	0.140	0.612
Methyl Ethyl Ketone ^a	0.103	0.450
Methyl Hydrazine ^a	0.045	0.196
Methylene chloride ^a	0.076	0.335
Propionaldehyde ^a	0.100	0.439
Toluene ^a	0.063	0.277

Emissions Data (Continued)			
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP	PPH TPY		
CO ₂ ^a	1,591,791.7	6,972,047.5	
Methane ^a	14.0	61.2	
N_2O^a	22.3	97.8	

- ^a Emissions based on AP-42, Section 1.1 (Revised 9/98).
- ^b Emissions based on 0.50 lbs/MMBtu NO_x limit from current Phase II Acid Rain Permit.
- ^c Emissions based on Electric Power Research Institute (EPRI) LARK-TRIPP RY2006 software.
- d Emissions based on 45 CSR 2-4.1a TSP limit of 0.05 lbs/MMBtu.
- e Emissions based on 5.12 lbs/MMBtu SO₂ limit per 45 CSR 10.
- ^f Emissions based on 40 CFR Part 98, Subpart C, Tables C-1 and C-2.
- ⁹ Emissions based on AP-42, Table 1.1-5, "All PM controls combined with an FGD control" Supporting emission calculation information is provided in Appendix A.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Combustion Emissions Unit ("C") applicable requirements are listed below as references to an Appendix containing the actual requirements. Each applicable requirement code below is linked by a reference number (e.g. "C-1") to detailed information for that requirement contained in Table C-AR. Each requirement in Table C-AR then references appropriate Combustion Testing/Recordkeeping/Reporting ("CTRR") requirements in Table C-TRR.

Applicable requirement codes below are actively hyperlinked to Table C-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units

C-1	C-11	
C-2	Error! Ref	erence source not found.
C-4	C-13	C-20
C-6	C-14	C-21
C-8	C-16	C-22
C-9	C-17	

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table C-TRR and are associated with the Applicable Requirements for this emissions unit within Table C-TRR.

Are you in compliance with all applicable requirements for this emission unit? <u>X</u> Yes ____No If no, complete the **Schedule of Compliance Form** as **ATTACHMENT** F.

ATTACHMENT E - Emissio	n Omt Form		
Emission Unit Description			
Emission unit ID number: Boiler 1A	Emission unit name: Aux Boiler A	List any control de with this emission u	
_	on unit (type, method of operation, desi 2.2 MMBtu/hr and is natural gas and N	-	
Manufacturer: Babcock and Wilcox	Model number: FM-11797A	Serial number:	
Construction date:	Installation date: 1972	Modification date(s	s):
Design Capacity (examples: furnac	res - tons/hr, tanks - gallons): 202.2MN	1Btu/hr	
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
202,200 scf/hour Natural Gas 1,455 gal/hour No. 2 Oil	1,771 MMscf Natural Gas 12,742,964 gal/yr No. 2 Oil	8,760 hours per ye	ear
Fuel Usage Data (fill out all applica	able fields)		
Does this emission unit combust fuel? X Yes No		If yes, is it?	
		X Indirect Fired	Direct Fired
Maximum design heat input and/or maximum horsepower rating: 202.2 MMBtu/hr		Type and Btu/hr ra	nting of burners:
List the primary fuel type(s) and if maximum hourly and annual fuel to Natural Gas – 202,200 scf/hr, 1,7 No. 2 Fuel Oil - 1,455 gal/hr; 12,7	71 MMscf/yr	For each fuel type lis	ted, provide the
Describe each fuel expected to be u	sed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	N/A		1,020 btu/scf
No. 2 Fuel Oil	1.0%		139,000 btu/gal

Emissions Data			
Cuitorio Dellutorata	Potential Emissions		
Criteria Pollutants ^a	PPH	TPY	
Carbon Monoxide (CO)	16.98	74.39	
Nitrogen Oxides (NO _X)	56.62	247.98	
Lead (Pb)	1.80E-03	7.88E-03	
Particulate Matter (PM _{2.5})	2.25	9.88	
Particulate Matter (PM ₁₀)	3.35	14.65	
Total Particulate Matter (TSP)	4.80	21.03	
Sulfur Dioxide (SO ₂)	205.11	539.03	
Volatile Organic Compounds (VOC)	1.11	4.87	
Hulana Ain Dallatanta	Potential Emissions		
Hazardous Air Pollutants ^a	PPH	TPY	
Arsenic	8.49E-04	3.72E-03	
Beryllium	5.06E-04	2.21E-03	
Cadmium	2.22E-03	9.74E-03	
Chromium	1.35E-02	5.93E-02	
Manganese	2.83E-03	1.24E-02	
Mercury	6.07E-04	2.66E-03	
Nickel	3.44E-02	1.51E-01	
Polycyclic Organic Compounds	4.85E-03	2.13E-02	
Formaldehyde	1.52	6.64	
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP ^a	PPH	TPY	
CO ₂	32,439	142,084	
Methane	0.47	2.04	
N ₂ O	0.44	1.95	

^a Potential emissions for each pollutant based on worst case fuel (natural gas or No. 2 oil). Natural gas emissions based on AP-42, Section 1.4 (rev 7/98) and No. 2 oil emissions based on AP-42, Section 1.3 (rev 9/98).

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Combustion Emissions Unit ("C") applicable requirements are listed below as references to an Appendix containing the actual requirements. Each applicable requirement code below is linked by a reference number (e.g. "C-1") to detailed information for that requirement contained in Table C-AR. Each requirement in Table C-AR then references appropriate Combustion Testing/Recordkeeping/Reporting ("CTRR") requirements in Table C-TRR.

Applicable requirement codes below are actively hyperlinked to Table C-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units

C-1	C-11
C-3	C-15
C-5	C-16
C-7	

C-10

X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table C-TRR and are associated with the Applicable Requirements for this emissions unit within Table C-TRR.

Are you in compliance with all applicable requirements for this emission unit? X Yes No

ATTACHMENT E - Emission	n Unit Form		
Emission Unit Description			
Emission unit ID number: Boiler 1B	Emission unit name: Aux Boiler B	List any control de with this emission u	
-	n unit (type, method of operation, desi .2 MMBtu/hr and is natural gas and N	_	
Manufacturer: Babcock and Wilcox	Model number: FM-11797A	Serial number:	
Construction date:	Installation date: 1972	Modification date(s):	
Design Capacity (examples: furnace	es - tons/hr, tanks - gallons): 202.2MM	IBtu/hr	
Maximum Hourly Throughput: 202,200 scf/hour Natural Gas 1,455 gal/hour No. 2 Oil	Maximum Annual Throughput: 1,771 MMscf Natural Gas 12,742,964 gal/yr No. 2 Oil	Maximum Operating Schedule: 8760 hours per year	
Fuel Usage Data (fill out all applica	ble fields)		
Does this emission unit combust fuel? X Yes No		If yes, is it? _X_Indirect Fired	Direct Fired
Maximum design heat input and/or maximum horsepower rating: 202.2 MMBtu/hr		Type and Btu/hr ra	ating of burners:
List the primary fuel type(s) and if maximum hourly and annual fuel under the Natural Gas – 202,200 scf/hr, 1,77 No. 2 Fuel Oil - 1,455 gal/hr; 12,74	'1 MMscf/yr	For each fuel type lis	ted, provide the
Describe each fuel expected to be us	sed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	N/A		1,020 btu/scf
No. 2 Fuel Oil	1.0%		139,000 btu/gal

Emissions Data			
Criteria Pollutants ^a	Potential Emissions		
Criteria Pollutants"	PPH	TPY	
Carbon Monoxide (CO)	16.98	74.39	
Nitrogen Oxides (NO _X)	56.62	247.98	
Lead (Pb)	1.80E-03	7.88E-03	
Particulate Matter (PM _{2.5})	2.25	9.88	
Particulate Matter (PM ₁₀)	3.35	14.65	
Total Particulate Matter (TSP)	4.80	21.03	
Sulfur Dioxide (SO ₂)	205.11	539.03	
Volatile Organic Compounds (VOC)	1.11	4.87	
H A Bu 4 2	Potential Emissions		
Hazardous Air Pollutants ^a	РРН	TPY	
Arsenic	8.49E-04	3.72E-03	
Beryllium	5.06E-04	2.21E-03	
Cadmium	2.22E-03	9.74E-03	
Chromium	1.35E-02	5.93E-02	
Manganese	2.83E-03	1.24E-02	
Mercury	6.07E-04	2.66E-03	
Nickel	3.44E-02	1.51E-01	
Polycyclic Organic Compounds	4.85E-03	2.13E-02	
Formaldehyde	1.52	6.64	
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP ^a	PPH	TPY	
CO ₂	32,439	142,084	
Methane	0.47	2.04	
N ₂ O	0.44	1.95	

^a Potential emissions for each pollutant based on worst case fuel (natural gas or No. 2 oil). Natural gas emissions based on AP-42, Section 1.4 (rev 7/98) and No. 2 oil emissions based on AP-42, Section 1.3 (rev 9/98).

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Combustion Emissions Unit ("C") applicable requirements are listed below as references to an Appendix containing the actual requirements. Each applicable requirement code below is linked by a reference number (e.g. "C-1") to detailed information for that requirement contained in Table C-AR. Each requirement in Table C-AR then references appropriate Combustion Testing/Recordkeeping/Reporting ("CTRR") requirements in Table C-TRR.

Applicable requirement codes below are actively hyperlinked to Table C-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units

C-1	C-11
C-3	C-15
C-5	C-16
C-7	

C-10

X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table C-TRR and are associated with the Applicable Requirements for this emissions unit within Table C-TRR.

Are you in compliance with all applicable requirements for this emission unit? X Yes No

ATTA	CHMENT E - Emission Unit	Form	
Emission Unit Description			
Emission unit ID number: EDG1	Emission unit name: Emergency Generator No. 1	List any control dewith this emission un None	
Provide a description of the emission us 1000 kW, 1341 HP No. 2 fuel oil-fired		gn parameters, etc.):	
Manufacturer: Caterpillar	Model number: D399TA	Serial number:	
Construction date:	Installation date: 1971	Modification date(s):	
Design Capacity (examples: furnaces -	tons/hr, tanks - gallons): 800 kW		
Maximum Hourly Throughput: 61.8 gal/hour	Maximum Annual Throughput: 30,900 gal/year	Maximum Operating Schedule: 500 hours per year	
Fuel Usage Data (fill out all applicable	fields)	'	
Does this emission unit combust fuel? <u>X</u> Yes No		If yes, is it?	
		Indirect Fired	X Direct Fired
Maximum design heat input and/or maximum horsepower rating: 8.59 MMBtu/hr		Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if app maximum hourly and annual fuel usag		For each fuel type lis	ted, provide the
No. 2 Fuel Oil - 61.8 gal/hr; 30,900 ga	al/yr		
Describe each fuel expected to be used	during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
No. 2 Fuel Oil	1.0%	N/A	139,000 btu/gal

Emissions Data			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO) ^a	7.30	1.83	
Nitrogen Oxides (NO _X) ^a	27.49	6.87	
Lead (Pb) ^c	7.73E-05	1.93E-05	
Particulate Matter (PM _{2.5}) ^a	0.48	0.12	
Particulate Matter (PM ₁₀) ^a	0.49	0.12	
Total Particulate Matter (TSP) ^a	0.60	0.15	
Sulfur Dioxide (SO ₂)	8.71	2.18	
Volatile Organic Compounds (VOC) ^a	0.77	0.19	
W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Potentia	l Emissions	
Hazardous Air Pollutants	РРН	TPY	
Arsenic ^c	3.44E-05	8.59E-06	
Beryllium ^c	2.58E-05	6.44E-06	
Cadmium ^c	2.58E-05	6.44E-06	
Chromium ^c	2.58E-05	6.44E-06	
Manganese ^c	5.15E-05	1.29E-05	
Mercury ^c	2.58E-05	6.44E-06	
Nickel ^c	2.58E-05	6.44E-06	
Polycyclic Organic Compounds ^d	1.12E-03	2.79E-04	
Benzene ^d	6.67E-03	1.67E-03	
Toluene ^d	2.41E-03	6.03E-04	
Xylenes ^d	1.66E-03	4.14E-04	
Acetaldehyde ^d	2.16E-04	5.41E-05	
Acrolein ^d	6.77E-05	1.69E-05	
Formaldehyde ^d	6.78E-04	1.69E-04	
Regulated Pollutants other than	Potentia	l Emissions	
Criteria and HAP	PPH	TPY	
$\mathrm{CO_2}^\mathrm{a}$	1417.4	354.4	

^a EPA AP-42, Tables 3.4-1 and 3.4-2 (10/96) for large stationary diesel engines.

^b SO2 emission based on 1.0% oil sulfur content.

^c EPA AP-42, Table 1.3-10(9/98), Assumed oil-fired boiler emission factors.

^d EPA AP-42, Table 3.4-3 and 3.4-4 (10/96).

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Combustion Emissions Unit ("C") applicable requirements are listed below as references to an Appendix containing the actual requirements. Each applicable requirement code below is linked by a reference number (e.g. "C-1") to detailed information for that requirement contained in Table C-AR. Each requirement in Table C-AR then references appropriate Combustion Testing/Recordkeeping/Reporting ("CTRR") requirements in Table C-TRR.

Applicable requirement codes below are actively hyperlinked to Table C-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units

C-18

X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table C-TRR and are associated with the Applicable Requirements for this emissions unit within Table C-TRR.

Are you in compliance with all applicable requirements for this emission unit? <u>X</u>Yes ___No

ATTA	CHMENT E - Emission Unit	Form	
Emission Unit Description			
Emission unit ID number: EDG2	Emission unit name: Emergency Generator No. 2	List any control dewith this emission to None	
Provide a description of the emission u 1000 kW, 1341 HP No. 2 fuel oil-fired		gn parameters, etc.):	
Manufacturer: Caterpillar	Model number: D399TA	Serial number:	
Construction date:	Installation date: 1971	Modification date(s):	
Design Capacity (examples: furnaces -	tons/hr, tanks - gallons): 800 kW		
Maximum Hourly Throughput: 61.8 gal/hour	Maximum Annual Throughput: 30,900 gal/year	Maximum Operating Schedule: 500 hours per year	
Fuel Usage Data (fill out all applicable	fields)		
Does this emission unit combust fuel? X_Yes No		If yes, is it?	
		Indirect Fired	X Direct Fired
Maximum design heat input and/or maximum horsepower rating: 8.59 MMBtu/hr		Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if app maximum hourly and annual fuel usag		For each fuel type list	ted, provide the
No. 2 Fuel Oil - 61.8 gal/hr; 30,900 ga	ıl/yr		
Describe each fuel expected to be used	during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
No. 2 Fuel Oil	1.0%	N/A	139,000 btu/gal

Emissions Data		
Cuitonia Ballistanta	Potential Emissions	
Criteria Pollutants	PPH	TPY
Carbon Monoxide (CO) ^a	7.30	1.83
Nitrogen Oxides (NO _X) ^a	27.49	6.87
Lead (Pb) ^c	7.73E-05	1.93E-05
Particulate Matter (PM _{2.5}) ^a	0.48	0.12
Particulate Matter (PM ₁₀) ^a	0.49	0.12
Total Particulate Matter (TSP) ^a	0.60	0.15
Sulfur Dioxide (SO ₂)	8.71	2.18
Volatile Organic Compounds (VOC) ^a	0.77	0.19
	Potentia	al Emissions
Hazardous Air Pollutants	PPH	TPY
Arsenic ^c	3.44E-05	8.59E-06
Beryllium ^c	2.58E-05	6.44E-06
Cadmium ^c	2.58E-05	6.44E-06
Chromium ^c	2.58E-05	6.44E-06
Manganese ^c	5.15E-05	1.29E-05
Mercury ^c	2.58E-05	6.44E-06
Nickel ^c	2.58E-05	6.44E-06
Polycyclic Organic Compounds ^d	1.12E-03	2.79E-04
Benzene ^d	6.67E-03	1.67E-03
Toluene ^d	2.41E-03	6.03E-04
Xylenes ^d	1.66E-03	4.14E-04
Acetaldehyde ^d	2.16E-04	5.41E-05
Acrolein ^d	6.77E-05	1.69E-05
Formaldehyde ^d	6.78E-04	1.69E-04
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	PPH T	
CO ₂ ^a	1417.4	354.4

^a EPA AP-42, Tables 3.4-1 and 3.4-2 (10/96) for large stationary diesel engines.

^b SO2 emission based on 1.0% oil sulfur content.

 $^{^{\}circ}$ EPA AP-42, Table 1.3-10(9/98), Assumed oil-fired boiler emission factors.

^d EPA AP-42, Table 3.4-3 and 3.4-4 (10/96).

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Combustion Emissions Unit ("C") applicable requirements are listed below as references to an Appendix containing the actual requirements. Each applicable requirement code below is linked by a reference number (e.g. "C-1") to detailed information for that requirement contained in Table C-AR. Each requirement in Table C-AR then references appropriate Combustion Testing/Recordkeeping/Reporting ("CTRR") requirements in Table C-TRR.

Applicable requirement codes below are actively hyperlinked to Table C-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units

C-18

X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table C-TRR and are associated with the Applicable Requirements for this emissions unit within Table C-TRR.

Are you in compliance with all applicable requirements for this emission unit? <u>X</u>Yes ___No

ATTACHMENT E - Emission Unit Form						
Emission Unit Description						
Emission unit ID number: EDG3	Emission unit name: Emergency Generator No. 3	List any control devices associated with this emission unit. None				
Provide a description of the emission under 350 kW, 470 HP No. 2 fuel oil-fired en		gn parameters, etc.):				
Manufacturer: Caterpillar	Model number: 3406	Serial number:				
Construction date:	Installation date: 1994	Modification date(s):				
Design Capacity (examples: furnaces -	tons/hr, tanks - gallons): 350 kW					
Maximum Hourly Throughput: 27.0 gal/hour	Maximum Annual Throughput: 13,500 gal/year	Maximum Operating Schedule: 500 hours per year				
Fuel Usage Data (fill out all applicable	fields)					
Does this emission unit combust fuel? _X_Yes No		If yes, is it?				
		Indirect Fired	X Direct Fired			
Maximum design heat input and/or maximum horsepower rating: 3.75 MMBtu/hr		Type and Btu/hr ra	ting of burners:			
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.						
No. 2 Fuel Oil - 27.0 gal/hr; 13,500 gal/yr						
Describe each fuel expected to be used during the term of the permit.						
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value			
No. 2 Fuel Oil	1.0%	N/A	139,000 btu/gal			

Emissions Data			
Cuitania Dallutonta	Potential Emissions		
Criteria Pollutants	РРН	TPY	
Carbon Monoxide (CO) ^a	3.19	0.80	
Nitrogen Oxides (NO _X) ^a	12.01	3.00	
Lead (Pb) ^c	3.38E-05	8.44E-06	
Particulate Matter (PM _{2.5}) ^a	0.21	0.05	
Particulate Matter (PM ₁₀) ^a	0.22	0.05	
Total Particulate Matter (TSP) ^a	0.26	0.07	
Sulfur Dioxide (SO ₂)	3.81	0.95	
Volatile Organic Compounds (VOC) ^a	0.34	0.08	
77 1 1 D D D 1 1	Potential Emissions		
Hazardous Air Pollutants	PPH	TPY	
Arsenic ^c	1.50E-05	3.75E-06	
Beryllium ^c	1.13E-05	2.81E-06	
Cadmium ^c	1.13E-05	2.81E-06	
Chromium ^c	1.13E-05	2.81E-06	
Manganese ^c	2.25E-05	5.63E-06	
Mercury ^c	1.13E-05	2.81E-06	
Nickel ^c	1.13E-05	2.81E-06	
Polycyclic Organic Compounds ^d	4.88E-04	1.22E-04	
Benzene ^d	2.91E-03	7.28E-04	
Toluene ^d	1.05E-03	2.64E-04	
Xylenes ^d	7.24E-04	1.81E-04	
Acetaldehyde ^d	9.46E-05	2.36E-05	
Acrolein ^d	2.96E-05	7.39E-06	
Formaldehyde ^d	2.96E-04	7.40E-05	
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP	РРН	TPY	
CO_2^a	619.25	154.81	

^a EPA AP-42, Tables 3.4-1 and 3.4-2 (10/96) for large stationary diesel engines.

^b SO2 emission based on 1.0% oil sulfur content.

^c EPA AP-42, Table 1.3-10(9/98), Assumed oil-fired boiler emission factors.

^d EPA AP-42, Table 3.4-3 and 3.4-4 (10/96).

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Combustion Emissions Unit ("C") applicable requirements are listed below as references to an Appendix containing the actual requirements. Each applicable requirement code below is linked by a reference number (e.g. "C-1") to detailed information for that requirement contained in Table C-AR. Each requirement in Table C-AR then references appropriate Combustion Testing/Recordkeeping/Reporting ("CTRR") requirements in Table C-TRR.

Applicable requirement codes below are actively hyperlinked to Table C-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units

C-18

X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table C-TRR and are associated with the Applicable Requirements for this emissions unit within Table C-TRR.

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ____No

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: EG-1	Emission unit name: Wetlands Pump House Emergency Generator	List any control de with this emission u		
Provide a description of the emission 108.2 kW, 145-HP LPG-fired emerg		gn parameters, etc.):		
Manufacturer: Kohler	Model number: 100REZGD	Serial number:		
Construction date:	Installation date: 2012	Modification date(s):		
Design Capacity (examples: furnaces	- tons/hr, tanks - gallons): 108.2 kW	J		
Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: 500 hours per year		
Fuel Usage Data (fill out all applicable	e fields)	ı		
Does this emission unit combust fuel? _X_Yes No		If yes, is it? Indirect Fired X Direct Fired		
Maximum design heat input and/or maximum horsepower rating: 145 BHP		Type and Btu/hr ra	ating of burners:	
List the primary fuel type(s) and if apmaximum hourly and annual fuel usa		For each fuel type lis	ted, provide the	
Liquid Propane Gas @ 12.81 gal/hr;	6,403 gal/yr			
Describe each fuel expected to be used	d during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	
Liquid Propane Gas	N/A	N/A	92,500 btu/gal	

Emissions Data			
C'A ' P.B.A A	Potential Emissions		
Criteria Pollutants	PPH	ТРУ	
Carbon Monoxide (CO) ^a	1.41	0.4	
Nitrogen Oxides (NO _X) ^a	0.32	0.1	
Lead (Pb) ^c	Negligible = "Neg."	Neg.	
Particulate Matter (PM _{2.5}) ^a	Neg.	Neg.	
Particulate Matter (PM ₁₀) ^a	Neg.	Neg.	
Total Particulate Matter (TSP) ^a	Neg.	Neg.	
Sulfur Dioxide (SO ₂)	Neg.	Neg.	
Volatile Organic Compounds (VOC) ^a	0.23	0.1	
	Potentia	al Emissions	
Hazardous Air Pollutants	PPH	TPY	
Arsenic ^c	Neg.	Neg.	
Beryllium ^c	Neg.	Neg.	
Cadmium ^c	Neg.	Neg.	
Chromium ^c	Neg.	Neg.	
Manganese ^c	Neg.	Neg.	
Mercury ^c	Neg.	Neg.	
Nickel ^c	Neg.	Neg.	
Polycyclic Organic Compounds ^d	Neg.	Neg.	
Benzene ^d	Neg.	Neg.	
Toluene ^d	Neg.	Neg.	
Xylenes ^d	Neg.	Neg.	
Acetaldehyde ^d	Neg.	Neg.	
Acrolein ^d	Neg.	Neg.	
Formaldehyde ^d	Neg.	Neg.	
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP	РРН	TPY	
CO ₂ ^a	No factor available	No factor available	

^a Emission factors from the engine's "Equipment Exhaust Emission Data Sheet"

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Class II General Permit G60-C049, issued 11/28/2012

Sections 1 through 4

Section 5: Source-Specific Requirements (Reciprocating Internal Combustion Engines)

Section 8: Source Specific Requirements (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines); 40 CFR Part 60, Subpart JJJJ

Operating hours are limited to 500 hours/year (100 hours per year for readiness and maintenance testing, included in this total is 50 hours/year for non-emergency use)

X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Class II General Permit G60-C049, Condition 5.4.1. Record amount and type of fuel combusted in the emergency engine; record hours of operation and reason for operation (emergency, readiness testing, etc.) in order to demonstrate compliance with Condition 8.4.4.

Are you in compliance with all applicable requirements for this emission unit? X Yes ____No

Table C-AR

Source-Specific Applicable Requirements for Combustion Sources – Harrison Power Station

(Compilation of Applicable Requirements)

TABLE C-AR

Source-Specific Applicable Requirements for Combustion Sources – Harrison Power Station

Emission Point ID (Reference Attachment D "Emissions Units Table" For Key)	Link From Attachment E Form	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Emissions Unit-Specific Applicable Requirement Summary	Link to Monitoring / Testing / Recordkeeping / Reporting Requirements
Stack 1, Stack 2, Stack 3, Aux Blr Stk	C-1	45CSR§2-10.1. State- Enforceable only	4.0.1	Emergency Operating Scenarios In the event of an unavoidable shortage of fuel having characteristics or specifications necessary to comply with the visible emission standard set forth in permit condition 4.1.1. of this permit, or any emergency situation or condition creating a threat to public safety or welfare, the Secretary may grant an exemption to the otherwise applicable visible emission standards for a period not to exceed fifteen (15) days, provided that visible emissions during that period do not exceed a maximum six (6) minute average of thirty (30) percent and that a reasonable demonstration is made by the owner or operator that the weight emission standards under permit conditions 4.1.3. and/or 4.1.4. of this permit, will not be exceeded during the exemption period.	None Required
Stack 1, Stack 2, Stack 3	C-2	45CSR§2-3.1.	4.1.1	Visible Emissions: Visible Emissions from each stack shall not exceed ten (10) percent opacity based on a six-minute block average.	CTRR-1 CTRR-6 CTRR-7 CTRR-8 CTRR-9 CTRR-10 CTRR-11

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Emission Point ID (Reference Attachment D "Emissions Units Table" For Key)	Link From Attachment E Form	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Emissions Unit-Specific Applicable Requirement Summary	Link to Monitoring / Testing / Recordkeeping / Reporting Requirements
Aux Blr Stk	C-3	45CSR§2-3.1.	4.1.1	Visible Emissions: Visible Emissions from this stack shall not exceed ten (10) percent opacity based on a six-minute block average.	CTRR-2 CTRR-6 CTRR-7 CTRR-8 CTRR-9 CTRR-10 CTRR-11
Stack 1, Stack 2, Stack 3	C-4	45CSR§2-3.2., 45CSR§2A-6]	4.1.2	Visible Emissions Compliance: Compliance with the visible emission requirements of 45CSR2 section 3.1 shall be determined in accordance with the approved monitoring plan.	CTRR-1
Aux Boiler Stk	C-5	45CSR§2-3.2., 45CSR§2A-6]	4.1.2	Visible Emissions Compliance: Compliance with the visible emission requirements of 45CSR2 section 3.1 shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and as described in the approved monitoring plan.	CTRR-2
Stack 1, Stack 2, Stack 3	C-6	45CSR§2-4.1.a.	4.1.3	Particulate Matter: Particulate matter emissions from each stack shall not exceed 316.25 lb/hr.	CTRR-3 CTRR-6 CTRR-7 CTRR-8 CTRR-11
Aux Boiler Stk	C-7	45CSR§2-4.1.b.	4.1.4	Particulate Matter: Particulate matter emissions from this stack shall not exceed 36.40 lb/hr.	CTRR-6 CTRR-7 CTRR-8 CTRR-11
Stack 1,Stack 2, Stack 3	C-8	45CSR§2-4.4.	4.1.5	Addition of Sulfur Oxides for Particulate Control: The addition of sulfur oxides to a combustion unit exit gas stream for the purpose of improving emissions control equipment is prohibited unless written approval for such addition is provided by the Secretary.	None Required

Monongahela Power Company Harrison Power Station Title V Operating Permit Renewal Application 2019

Emission Point ID (Reference Attachment D "Emissions Units Table" For Key)	Link From Attachment E Form	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Emissions Unit-Specific Applicable Requirement Summary	Link to Monitoring / Testing / Recordkeeping / Reporting Requirements
Stack 1, Stack 2, Stack 3	C-9	45CSR§2-9.1.	4.1.11	Visible Emissions Applicability: The visible emission standards of permit condition 4.1.1., shall apply at all times except in periods of start-ups, shutdowns and malfunctions.	CTRR-1
Aux Boiler Stk	C-10	45CSR§2-9.1.	4.1.11	Visible Emissions Applicability: The visible emission standards of permit condition 4.1.1., shall apply at all times except in periods of start-ups, shutdowns and malfunctions.	CTRR-2
Stack 1, Stack 2, Stack 3, Aux Boiler Stk	C-11	45CSR§2-9.2., 45CSR16	4.1.12	Good Pollution Control Practice: Any fuel burning unit(s) including associated air pollution control equipment, shall at all times, including periods of start-up, shutdowns, and malfunctions, to the extent practicable, be maintained and operated in a manner consistent with good air pollution control practice for minimizing emissions.	None Required
Stack 1, Stack 2, Stack 3	C-13	45CSR33	4.1.14	Nitrogen Oxides: Nitrogen oxides emissions, expressed as NO ₂ , from each stack (<i>Stack 1, Stack 2, and Stack 3</i>) shall not exceed the limits specified in the Acid Rain Permit.	CTRR-5 CTRR-18
Stack 1, Stack 2, Stack 3	C-14	45CSR10-3.3.a.	4.1.15	Sulfur Dioxide: Sulfur dioxide emissions from each stack (Stack 1, Stack 2, and Stack 3) shall not exceed 32,384 lb/hr.	CTRR-5 CTRR-18
Aux Boiler Stack	C-15	45CSR§10-3.1.e.	4.1.16	Sulfur Dioxide: Sulfur dioxide emissions from the auxiliary boiler stack (Aux Boiler Stk) shall not exceed 1294.08 lb/hr.	CTRR-4 CTRR-10

Emission Point ID (Reference Attachment D "Emissions Units Table" For Key)	Link From Attachment E Form	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Emissions Unit-Specific Applicable Requirement Summary	Link to Monitoring / Testing / Recordkeeping / Reporting Requirements
Stack 1, Stack 2, Stack 3, Aux Boiler Stack	C-16	45CSR§10-3.8.	4.1.17	Sulfur Dioxide Compliance: Compliance with the allowable sulfur dioxide emission limitations from fuel burning units shall be based on a continuous twenty-four (24) hour averaging time. Emissions shall not be allowed to exceed the weight emissions standards for sulfur dioxide as set forth in 45CSR10, except during one (1) continuous twenty-four (24) hour period in each calendar month. During this one (1) continuous twenty-four-hour period, emissions shall not be allowed to exceed such weight emission standards by more than ten percent (10%) without causing a violation of 45CSR10. A continuous twenty-four (24) hour period is defined as one (1) calendar day.	CTRR-4 CTRR-10

Emission Point ID (Reference Attachment D "Emissions Units Table" For Key)	Link From Attachment E Form	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Emissions Unit-Specific Applicable Requirement Summary	Link to Monitoring / Testing / Recordkeeping / Reporting Requirements
Stack 1, Stack 2, Stack 3	C-17	45CSR33, 40 C.F.R. Parts 72, 73, 74, 75, 76, 77, 78.	4.1.18	 Phase II Acid Rain Requirements: Unit No 1, Unit No. 2, and Unit No. 3 are Phase II Acid Rain affected units under 45CSR33, as defined by 40 C.F.R § 72.6, and as such are required to meet the requirements of 40 C.F.R. Parts 72, 73, 74, 75, 76, 77 and 78. These requirements include, but are not limited to: a. Hold an Acid Rain permit; b. Hold allowances, as of the allowance transfer deadline, in the unit's compliance sub-account of not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; c. Comply with the applicable Acid Rain emissions for sulfur dioxide; d. Comply with the applicable Acid Rain emissions for nitrogen oxides; e. Comply with the monitoring requirements of 40 CFR. Part 75 and section 407 of the Clean Air Act of 1990 and regulations implementing section 407 of the Act; f. Submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR Part 72, Subpart I and 40 CFR Part 75. 	CTRR-5 CTRR-18

Emission Point ID (Reference Attachment D "Emissions Units Table" For Key)	Link From Attachment E Form	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Emissions Unit-Specific Applicable Requirement Summary	Link to Monitoring / Testing / Recordkeeping / Reporting Requirements
EDG1, EDG2, EDG3, EG-1	C-18	40 CFR 60, Subpart JJJJ (EG-1 only); 40 CFR 63.6640(f) Subpart ZZZZ	New	Track hours of operation, not to exceed 500 hours per any 12-month period; total non-emergency use not to exceed 100 hours per 12-month period, including 50 hours for readiness testing and maintenance. EG-1: Operate the engine in accordance with terms and conditions of General Permit G60-C049, Sections 1.0-5.0, and 8.0	N/A

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Emission Point ID	Link	Applicable Requirement	Permit	Emissions Unit-Specific Applicable Requirement Summary	Link to
(Reference Attachment	From	Citation	Condition		Monitoring /
D "Emissions Units	Attachment E		Number from		Testing /
Table"	Form		Permit		Recordkeeping /
For Key)			R30-03300015-		Reporting
			2009		Requirements

CAIR NOx Annual Permit: Upon issuance of a CAIR NOx annual permit by the Secretary, Units B-1, B-2 and B-3 must be operated in compliance with such permit.

Stack 1, Stack 2, C-20 45CSR§39-6.1.b. 3.1.12 CTRR-5

Monongahela Power Company Harrison Power Station Title V Operating Permit Renewal Application 2019 **Emission Unit Form**

Emission Point ID (Reference Attachment D "Emissions Units Table" For Key)	Link From Attachment E Form	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Emissions Unit-Specific Applicable Requirement Summary	Link to Monitoring / Testing / Recordkeeping / Reporting Requirements
Stack 1, Stack 2, Stack 3	C-21	45CSR§40-6.1.b.	3.1.12	CAIR NOx Ozone Season Trading Program: Upon issuance of a CAIR NOx Ozone Season permit by the Secretary, Units B-1, B-2 and B-3 must be operated in compliance with such permit.	CTRR-5
Stack 1, Stack 2, Stack 3	C-22	45CSR§41-21.1 and 45CSR§41-6.1.b	3.1.12	CAIR SO₂: Submit to the WVDEP a complete CAIR SO ₂ permit application incorporating the information requirements under section 22 of 45CSR§41 by July 1, 2008. : Upon issuance of a CAIR SO ₂ permit by the Secretary, Units B1, B2 and B3 must be operated in compliance with such permit.	CTRR-5

Table C-TRR

C-TRR. Combustion Sources – Emissions Unit Testing, Recordkeeping and Reporting Requirements – Harrison Power Station

(Compilation of Monitoring, Testing, Reporting and Recordkeeping Requirements)

TABLE C-TRR

Link Referenced from Applicable Requirements	Emission Point ID (See Attachment D "Equipment Table" For Key)	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Emission Unit-Specific Applicable Requirement Summary
CTRR-1	Stack 1, Stack 2, Stack 3	45CSR§§2-3.2. & 8.2.	4.2.1	Compliance with the visible emission requirements for Stack 1, Stack 2 and Stack 3 shall be determined as outlined in Section I.A. of Revision 2 of the "45CSR2 Monitoring Plan" submitted/revised on September 25, 2002. (Monitoring Plan Approval Date – 08/06/03)
CTRR-2	Aux Boiler Stk	45CSR§§2-3.2. & 8.2.	4.2.1	Compliance with the visible emission requirements for <i>Aux Boiler Stk</i> shall be determined as outlined in Section I.B. of Revision 2 of the "45CSR2 Monitoring Plan" submitted/revised on September 25, 2002. (Monitoring Plan Approval Date – 08/06/03)
	Stack 1, Stack 2, Stack 3	45CSR§30-5.1.c.; 40 CFR §64.3(b)(1) and (b)(4)(ii)	4.2.2	ESP secondary voltage and secondary current shall be measured continuously in order to calculate the total power input to each ESP. Total power is the sum of the products of secondary voltage and secondary current in each field, in accordance with Condition 4.4.3
	Stack 1, Stack 2, Stack 3	45CSR§30-5.1.c.; 40 CFR §64.3(b)(3)	4.2.3	Calibrate, maintain, and operate the instrumentation used to measure the secondary voltages and currents in Condition 4.2.2 in accordance with manufacturers' specifications.
	Stack 1, Stack 2, Stack 3	45CSR16, 45CSR45, 40CFR§75.10, 40CFR§60.45	4.2.4	Install, calibrate, certify, operate, and maintain continuous monitoring systems that measure all SO_2 , NO_X , and CO_2 emissions from each stack as specified in 40CFR60, Subpart D and 40CFR75.
	Stack 1, Stack 2, Stack 3	45CSR§10-3.8	4.2.5	Maintain compliance with the allowable sulfur dioxide emissions limitations in Conditions 4.1.15 and 4.1.16 of the TVOP, based on a continuous 24-hour averaging time, except for one continuous 24-hour period each calendar month. In this case, emissions shall not exceed the limitation by more than 10%.
	Stack 1, Stack 2, Stack 3	45CSR§30-5.1.c., 40CFR§64.4(e)	4.2.6	Maintain compliance with established monitoring parameters in accordance with approved site-specific Compliance Assurance Monitoring Plan (CAM) and testing protocol – implementation began 2Q2010.

Link Referenced from Applicable Requirements	Emission Point ID (See Attachment D "Equipment Table" For Key)	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009		Emission Unit-Specific Applicable Requirement Summary	
CTRR-3				The owner or operator shall conduct, or have conducted, tests to determine the compliance of <i>Unit B1</i> , <i>Unit B2</i> , and <i>Unit B3</i> with the particulate mass emission limitations. Such tests shall be conducted in accordant the appropriate method set forth in 45CSR2 Appendix - Compliance Procedures for 45CSR2 or other equivalent EPA approved method apply the Secretary. Such tests shall be conducted in accordance with the schedule set forth in the following table. Test Results Retesting		
				Frequency		•
				Initial Baseline Initial Baseline Initial Baseline Annual	≤50% of weight emission standard between 50% and 80 % of weight emission standard ≥80% of weight emission standard after three successive tests indicate mass emission	Once/3 years Once/2 years Annual
				Annual	rates ≤50% of weight emission standard after two successive tests indicate mass emission	Once/3 years
				Annual	rates <80 % of weight emission standard any test indicates a mass emission rate ≥80% of	Once/2 years
	Stack 1, Stack 2, Stack 3	45CSR§2-8.1., 45CSR§2A-5.2.	4.3.1		weight emission standard	Annual
	Z, Stack 3	4000Ng2A-0.2.		Once/2 years	after two successive tests indicate mass emission rates ≤50% of weight emission standard	Once/3 years
				Once/2 years	any test indicates a mass emission rate <80 % of weight emission standard	Once/2 years
				Once/2 years	any test indicates a mass emission rate >80% of weight emission standard	Annual
				Once/3 years	any test indicates a mass emission rate ≤50% of weight emission standard	Once/3 years
				Once/3 years	any test indicates mass emission rates between 50% and 80 % of weight emission standard	Once/2 years
				Once/3 years	any test indicates a mass emission rate ≥80% of weight emission standard	Annual
onongahela Pov	. ,				Emission Unit	Form

Link Referenced from Applicable	Emission Point ID (See Attachment D "Equipment Table"	Emissions Unit Testing, Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015-	and Reporting Requirements – Harrison Power Station Emission Unit-Specific Applicable Requirement Summary
Requirements	For Key)		2009	
CTRR-4	Stack 1, Stack 2, Stack 3, Aux Boiler Stk	45CSR§§2-8.3.c	4.4.1 4.4.2	Maintain records of the operating schedule and the quantity and quality of fuel consumed in each fuel burning unit as outlined in Revision 2 of the "45CSR2 Monitoring Plan" submitted/revised on September 25, 2002. (Monitoring Plan Approval Date – 08/06/03). Such records are to be maintained on-site and made available to the Director or his duly authorized representative upon request.
	Stack 1, Stack 2, Stack 3	45CSR§30-5.1.c.; 40 CFR §64.9(b)	4.4.3	Total secondary ESP power input (in kW) shall be calculated and recorded no less than four times per hour, equally spaced over each hour, in an electronic data acquisition system, and averaged on a 3-hour basis.
CTRR-5	Stack 1, Stack 2, Stack 3	45CSR33, 40 C.F.R. § 75.64	4.5.1	The designated representative shall electronically report SO ₂ , NO _x , and CO ₂ emissions data and information as specified in 40 C.F.R. § 75.64 to the Administrator of USEPA, quarterly. Each electronic report must be submitted within thirty (30) days following the end of each calendar quarter.
CTRR-6	Stack 1, Stack 2, Stack 3, Aux Boiler Stk	45CSR§2-9.3.a. State-Enforceable only	4.5.3.1	Excess opacity periods, resulting from any malfunction, meeting the following conditions may be reported on a quarterly basis unless otherwise required by the Director: a. The excess opacity period does not exceed thirty (30) minutes within any twenty-four (24) hour period; and b. Excess opacity does not exceed forty percent (40%).

Link Referenced from Applicable Requirements	Emission Point ID (See Attachment D "Equipment Table" For Key)	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Emission Unit-Specific Applicable Requirement Summary
CTRR-7	Stack 1, Stack 2, Stack 3, Aux Boiler Stk	45CSR§2-9.3.b. State-Enforceable only	4.5.3.2	The owner or operator shall report to the Director by telephone, telefax, or email any malfunction which results in excess particulate matter or excess opacity by the end of the next business day after becoming aware of such condition. The owner or operator shall file a certified written report concerning the malfunction with the Secretary within thirty (30) days providing the following information: a. A detailed explanation of the factors involved or causes of the malfunction; b. The date, and time of duration (with starting and ending times) of the period of excess emissions; c. An estimate of the mass of excess emissions discharged during the malfunction period; d. The maximum opacity measured or observed during the malfunction; e. Immediate remedial actions taken at the time of the malfunction to correct or mitigate the effects of the malfunction; and f. A detailed explanation of the corrective measures or program that will be implemented to prevent a recurrence of the malfunction and a schedule for such implementation.

Link Referenced from Applicable Requirements	Emission Point ID (See Attachment D "Equipment Table" For Key)	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Emission Unit-Specific Applicable Requirement Summary
CTRR-8	Stack 1, Stack 2, Stack 3, Aux Boiler Stk	45CSR§2-8.1.a.	4.1.6	Compliance with the visible emission limit shall be demonstrated by periodic testing in accordance with 40 CFR Part 60, Appendix A, Method 9, a certified continuous opacity monitoring system, or through use of the alternative monitoring method outlined in Revision 2 of the "45CSR2 Monitoring Plan" submitted/revised on September 25, 2002. (Monitoring Plan Approval Date – 08/06/03) as approved by the Secretary. Compliance with the weight emission limit shall be demonstrated by periodic particulate matter stack testing, conducted in accordance with the appropriate test method set forth in the Appendix to 45CSR2 or other equivalent EPA approved method or as outlined in Revision 2 of the "45CSR2 Monitoring Plan" submitted/revised on September 25, 2002. (Monitoring Plan Approval Date – 08/06/03) as approved by the Secretary. Such testing shall be conducted at a frequency to be established by the Secretary.
CTRR-9	Stack 1, Stack 2, Stack 3, Aux Boiler Stk	45CSR§2-8.2.a.	4.1.7	Compliance with the visible emissions limit shall be monitored as set forth in Revision 2 of the "45CSR2 Monitoring Plan" submitted/revised on September 25, 2002. (Monitoring Plan Approval Date – 08/06/03)
CTRR-10	Stack 1, Stack 2, Stack 3, Aux Boiler Stk	45CSR§2-8.3.a.	4.1.8	Records of monitored data established in the monitoring plan shall be maintained on site and shall be made available to the Secretary or his duly authorized representative upon request.
CTRR-11	Stack 1, Stack 2, Stack 3, Aux Boiler Stk	45CSR§2-8.3.b., 45CSR2A	4.1.9 4.5.2	A periodic exception report shall be submitted to the Secretary, in a manner and at a frequency to be established by the Secretary. Such exception report shall provide details of all excursions outside the range of measured emissions or monitored parameters established in an approved monitoring plan, and shall include, but not be limited to, the time of the excursion, the magnitude of the excursion, the duration of the excursion, the cause of the excursion and the corrective action taken. Compliance with the periodic exception reporting of shall be demonstrated as outlined in Revision 2 of the "45CSR2 Monitoring Plan" submitted/revised on September 25, 2002. (Monitoring Plan Approval Date – 08/06/03).

C-TRR. Com	bustion Sources –	Emissions Unit Testing,	Recordkeeping a	and Reporting Requirements – Harrison Power Station
Link Referenced from Applicable Requirements	Emission Point ID (See Attachment D "Equipment Table" For Key)	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Emission Unit-Specific Applicable Requirement Summary
CTRR-12	Stack 1, Stack 2, Stack 3, Aux Boiler Stk	45CSR§2-8.3.c.	4.1.10	Records of the operating schedule and the quantity and quality of fuel consumed in each fuel burning unit, shall be maintained on-site in a manner to be established by the Secretary and made available to the Secretary or his duly authorized representative upon request.
CTRR-18	Stack 1, Stack 2, Stack 3	40CFR Part 75	No Explicit Condition in 2009 Permit	 Continuous Emission Monitoring (CEM): Pollutant emissions monitoring for pollutants listed below is through installation, calibration, certification, operation, and maintenance of continuous monitoring systems. Continuous emissions monitoring is required as the primary method for the following pollutants and parameters: SO₂ (CEM is Primary Method) SO₂ (Alternate Method ASTM compliant fuel sampling and analysis or other appropriate method in the absence of CEMS data per section II.A.3. of Revision 2 of the "45CSR10 Monitoring Plan" submitted/revised on September 25, 2002. (Monitoring Plan Approval Date - 08/06/03) NOx CO₂ (By CEM or by alternative calculation) Flue gas flow
	Lime Handling Facilities	45CSR13; R13- 1477, Cond. A.1.	5.1.1	In accordance with the information filed in Permit Application R13-1477A, R13-1477B and any amendments thereto, the maximum throughputs in Section 1.0 shall not be exceeded and, at a minimum, the control equipment specified in Section 1.0 shall be installed, maintained, and operated so as to minimize particulate matter emissions.
	Lime Handling Facilities	45CSR13; R13- 1477, Cond. A.2.	5.1.2	In accordance with the information filed in Permit Application R13-1477A, R13-1477B and any amendments thereto, particulate matter emissions from the emission points shall not exceed the limitations and maximum exit flows from the associated control devices as specified in the table listed in Condition 5.1.2 of TVOP R30-03300015-2009.

ATTA	CHMENT E - Emission Unit	Form	
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control dev	
Insig Tanks	Insignificant Storage Tanks	with this emission u	init.
Provide a description of the emission us Storage tanks that store volatile organic (or federal requirements. Emissions from annual throughputs.	or non-volatile/ non-organic) liquids the	hat are not subject to a	
Manufacturer:	Model number:	Serial number:	
Construction date:	Installation date:	Modification date(s):
Design Capacity (examples: furnaces - and product stored.	tons/hr, tanks - gallons): See attac	hed table for list of ta	ank capacities
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operation 8760 hours per year	-
Fuel Usage Data (fill out all applicable	fields)		
Does this emission unit combust fuel?	YesX No	If yes, is it?	
		Indirect Fired	Direct Fired
Maximum design heat input and/or ma	ximum horsepower rating:	Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if app maximum hourly and annual fuel usag		 For each fuel type list	ted, provide the
Describe each fuel expected to be used	during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
		1	

Criteria Pollutants	Poter	Potential Emissions		
Criteria Poliutants	PPH	TPY		
Carbon Monoxide (CO)				
Nitrogen Oxides (NO _X)				
Lead (Pb)				
Particulate Matter (PM _{2.5})				
Particulate Matter (PM ₁₀)				
Total Particulate Matter (TSP)				
Sulfur Dioxide (SO ₂)				
Volatile Organic Compounds (VOC)		Negligible		
Hazardous Air Pollutants	Potential Emissions			
Hazardous Air Fonutants	PPH	TPY		
	Negligible			
Regulated Pollutants other than Criteria and HAP		tial Emissions		
Criteria and HAP	РРН	TPY		

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
Are you in compliance with all applicable requirements for this emission unit? X YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F .

Harrison Power Station Storage Tank Inventory for Emission Unit: "Insig Tanks"

Tank ID#	Year Installed	Tank Capacity (gal)	Stored Substance
A3HN	1991	10,000	Sulfuric Acid Tank 2
A4HN	1978	10,000	Sulfuric Acid Tank 1
A6HN	1980	12,000	Coal Flow Additive
A7HN	1980	12,000	Coal Flow Additive
A8HN	1980	12,000	Coal Flow Additive
A9HN	1971	1200	Propylene glycol
A10HN	1971	1200	Propylene glycol
A11HN	1971	1200	Propylene glycol
A12HN	2002	500	(propylene glycol)
A14HN	2000	4,000	Phosphonate
A15HN	1971	750,000	Chemical Cleaning Waste
A16HN	1971	300	No. 2 Fuel Oil
A17HN	1971	300	No. 2 Fuel Oil
A18HN	1971	200	No. 2 Fuel Oil
A19HN	1978	125,000	Diesel Fuel
A21HN	1974	800	Turbine Oil Reservoir
A22HN	1974	800	Turbine Oil Reservoir
A23HN	1974	800	Turbine Oil Reservoir
A24HN	1974	800	Turbine Oil Reservoir
A25HN	1974	800	Turbine Oil Reservoir
A26HN	1974	800	Turbine Oil Reservoir
A27HN	1971	800	Oil Reservoir
A28HN	1971	800	Oil Reservoir
A29HN	1971	800	Oil Reservoir
A30HN	1971	12,200	Turbine Oil Reservoir
A31HN	1971	12,200	Turbine Oil Reservoir
A32HN	1971	12,200	Turbine Oil Reservoir
A33HN	1971	932	Turbine Oil Filter
A34HN	1971	932	Turbine Oil Filter
A35HN	1971	932	Turbine Oil Filter
A36HN	1971	300	Hydraulic Oil
A37HN	1971	300	Hydraulic Oil
A38HN	1971	300	Hydraulic Oil
A39HN	1971	1,000	Waste Oil
A51HN	1989	1200	Waste Oil
A52HN	1984	100	Hazardous Waste Oil
A53HN	1990	12,000	Dozer Fuel Oil
A80HN	1995	2000	Polymer
A95HN	1995	275	No. 2 Fuel Oil
A97HN	1971	1500	Biocide DGH
A98HN	1971	1500	Biocide QUAT
A301HN	1971	250	Loop Seal Oil
A302HN	1971	250	Loop Seal Oil
A303HN	1971	250	Loop Seal Oil
A163HN	App 1980	10	Part Cleaner
A164HN	App 1980 App 1980	50	Part Cleaner
A173HN	App 1980 App 1980	50	Part Cleaner
A166HN	App 1980 App 1980	50	Parts Cleaner
A167HN	App 1980 App 1980	50	Parts Cleaner
A299HN	1990	2,000	Turbine Oil
A300HN	1972	15,000	Waste Turbine Oil
A300HN A96HN	1972	15,000	Ammonium Hydroxide
ASOLIN	1912	15,000	Aminonium nyuloxide

Harrison Power Station Storage Tank Inventory for Emission Unit: "Insig Tanks" (continued)

Tank ID#	Year Installed	Tank Capacity (gal)	Stored Substance
A101HN	1985	600	Polymer (Nalco 2706)
A102HN	1985	100	Coagulant (Nalco7735)
A103HN	1995	50	Sodium Sulfite
A104HN	1968	600	(Nalco LCS 3800)
A107HN	1995	340	Biocide (Nalco H-135)
A109HN	1995	340	Biocide (Nalco H-135)
A110HN	1995	300	Sodium Hypochlorite (15%)
A116HN	1968	75	Ammonium Hydroxide
A117HN	1968	75	Ammonium Hydroxide
A118HN	1968	75	Ammonium Hydroxide
A120HN	1968	50	Trisodium Phosphate
A121HN	1968	50	Ammonium Hydroxide-
A122HN	1968	75	Calgon C-5
A123HN	1968	100	Sodium Hypochlorite (15%) (Potable Water)
A125 HN	2000	3135	Polypropylene Glycol
A126HN	2000	3135	Polypropylene Glycol
A164HN	2001	13450	Urea Solution (40%)
A165HN	2001	13450	Urea Solution (40%)
A166HN	2001	40000	Urea Solution (40%)
A167HN	2002	2000	Biocide (Nalco 7320)
A175HN	2001	200	Hydraulic Oil
A176HN	2001	200	Hydraulic Oil
A177HN	2001	200	Hydraulic Oil
A178HN	1991	65	Lube Oil
A179HN	1991	65	Lube Oil
A180HN	1991	65	Lube Oil
A181HN	1991	65	Lube Oil
A182HN	2001	65	Hydraulic Oil
A183HN	2001	65	Hydraulic Oil
A184HN	2001	65	Hydraulic Oil
A281HN	2001	110	Lube Oil
A282HN	2001	110	Lube Oil
A283HN	2001	110	Lube Oil
A284HN	2001	110	Lube Oil
A285HN	2001	110	Lube Oil
A286HN	2001	110	Lube Oil
A287HN	1991	110	Lube Oil
A288HN	1991	110	Lube Oil
A289HN	1991	110	Lube Oil
A290HN	1991	110	Lube Oil
A291HN	1991	110	Lube Oil
A292HN	1991	110	Lube Oil
A294HN	2002	500	Propylene Glycol
A295HN	2002	500	Propylene Glycol
A296HN	2002	100	Propylene Glycol
A297HN	2002	2500	Biocide (Nalco 7320)

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: FP-01	Emission unit name: Emergency Diesel Fire Pump 1	List any control devi with this emission un		
Provide a description of the emission Fire pump engine used to provide emer				
Manufacturer: Clarke (John Deere)	Model number: JX6H-UFAD60	Serial number: N/A		
Construction date: April 2019	Installation date: November 2019	Modification date(s) N/A	:	
Design Capacity (examples: furnaces 510 bhp	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput: 22 gal/hr ULSD	Maximum Annual Throughput: 11,000 gal/year	Maximum Operating 500 hours/year	g Schedule:	
Fuel Usage Data (fill out all applicab	ole fields)			
Does this emission unit combust fuel	? <u>X</u> Yes No	If yes, is it?		
		Indirect Fired	X Direct Fired	
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr rat	ing of burners:	
3.0 MMBtu/hr; 510 bhp		N/A - Internal Combu	astion	
List the primary fuel type(s) and if a the maximum hourly and annual fue		(s). For each fuel type	listed, provide	
Ultra-Low Sulfur Diesel fuel				
Describe each fuel expected to be use	ed during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	
ULSD	15 ppm	N/A	137,000 btu/gal	

Emissions Data		
Criteria Pollutants	ia Pollutants Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	2.86	0.72
Nitrogen Oxides (NO _X)	3.37	0.84
Lead (Pb)	0	0
Particulate Matter (PM _{2.5})	0.17	0.04
Particulate Matter (PM ₁₀)	0.17	0.04
Total Particulate Matter (TSP)	0.17	0.04
Sulfur Dioxide (SO ₂)	0.87	0.22
Volatile Organic Compounds (VOC)	1.05	0.26
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAPs	0.0090	0.0022
Formaldehyde	0.0036	0.0009
Benzene	0.0028	0.0007
Toluene	0.0012	0.0003
Xylenes	0.0009	0.0002
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	РРН	TPY
CO ₂ e	494	124

For NOx and PM, used limits set forth in Table 4 to 40 CFR Part 60, Subpart IIII, for Emergency Fire Pump Engines, Model Year 2009+

For all other pollutants, calculated using engine specs and AP-42 factors from Tables 3.3-1 and 3.3-2 for diesel fuel.

Excel calculations spreadsheet enclosed as part of this Title V renewal submittal.

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
45CSR§30, Title V Operating Permit Condition 3.4 – Recordkeeping Requirements, Retention of Records
Operating hours are limited to 500 hours/year (100 hours per year for readiness and maintenance testing, included in this total is 50 hours/year for non-emergency use)
40 CFR Part 60, Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
40 CFR Part 63, Subpart ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
Record amount and type of fuel combusted in the emergency fire pump engine; record hours of operation and reason for operation (emergency, readiness testing, etc.).
Perform and record annual maintenance activities as per 40 CFR Part 60, Subpart IIII and 40 CFR Part 63, Subpart ZZZZ.
Are you in compliance with all applicable requirements for this emission unit? XYesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number:	Emission unit name:	List any control devi		
FP-02	Emergency Diesel Fire Pump 2	with this emission u	nit: None	
Provide a description of the emission	n unit (type, method of operation,	design parameters, etc	.):	
Fire pump engine used to provide eme	rgency back-up water supply in the	event of lost main facili	ty power supply	
Manufacturer:	Model number:	Serial number:		
Cummins	NTC335	27175340		
Construction date:	Installation date:	Modification date(s)	:	
1971	August 1971	N/A		
Design Capacity (examples: furnace	s - tons/hr, tanks - gallons):			
335 bhp				
Maximum Hourly Throughput:	Maximum Annual	Maximum Operating	g Schedule:	
18 gal/hr ULSD	Throughput: 9,000 gal/year	500 hours/year		
Fuel Usage Data (fill out all applicat	ole fields)			
Does this emission unit combust fuel	? <u>X</u> Yes No	If yes, is it?		
		Indirect Fired	X Direct Fired	
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr rat	ing of burners:	
335 bhp		N/A - Internal Combu	istion	
List the primary fuel type(s) and if a	unnlicable the secondary fuel type	(s) For each fuel type	listed provide	
the maximum hourly and annual fue		(s). For each fuct type	nstea, provide	
Ultra-Low Sulfur Diesel fuel				
Describe each fuel expected to be use	ed during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	
ULSD	15 ppm	n/a	137,000 btu/gal	

Emissions Data			
Criteria Pollutants	Potential Emissions		
	РРН	TPY	
Carbon Monoxide (CO)	2.3	0.59	
Nitrogen Oxides (NO _X)	10.9	2.72	
Lead (Pb)	0	0	
Particulate Matter (PM _{2.5})	0.76	0.19	
Particulate Matter (PM ₁₀)	0.76	0.19	
Total Particulate Matter (TSP)	0.76	0.19	
Sulfur Dioxide (SO ₂)	0.72	0.18	
Volatile Organic Compounds (VOC)	0.86	0.22	
Hazardous Air Pollutants	Potential Emissions		
	РРН	TPY	
Cotal HAPs	0.0073	0.0018	
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP	PPH	TPY	
CO ₂ e	404	101	

Calculated using engine specs and AP-42 factors from Tables 3.3-1 and 3.3-2 for diesel fuel. Excel calculations spreadsheet enclosed as part of this Title V renewal submittal.

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
45CSR§30, Title V Operating Permit Condition 3.4 – Recordkeeping Requirements, Retention of Records
Operating hours are limited to 500 hours/year (100 hours per year for readiness and maintenance testing, included in this total is 50 hours/year for non-emergency use)
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
Record amount and type of fuel combusted in the emergency fire pump engine; record hours of operation and reason for operation (emergency, readiness testing, etc.).
Are you in compliance with all applicable requirements for this emission unit? X YesNo

AT	TACHMENT E - Emission U	J nit Form	
Emission Unit Description			
Emission unit ID number: EG-2	Emission unit name: Leachate Collection System Emergency Generator	List any control devi with this emission un	
Provide a description of the emission. This generator is for emergency back Conveyance System in the Harrison.	k-up power supply purposes and is lo	, ,	
Manufacturer: Kohler Power systems	Model number: 400REZXB	Serial number: N/A	
Construction date: 2019	Installation date: November 2019	Modification date(s) N/A	:
Design Capacity (examples: furna 605 bhp, three (3) 1,000-gallon LPG			
Maximum Hourly Throughput: 39 gal/hr LPG	Maximum Annual Throughput: 19,360 gal/year LPG	Maximum Operating Schedule: 500 hours/year	
Fuel Usage Data (fill out all applic	able fields)		
Does this emission unit combust fu	nel? <u>X</u> Yes No	If yes, is it? Indirect Fired	X Direct Fired
Maximum design heat input and/o	or maximum horsepower rating:	Type and Btu/hr rat	ing of burners:
3.54 MMBtu/hr; 605 bhp (full standby load)		N/A - Internal Combustion	
List the primary fuel type(s) and i the maximum hourly and annual i		oe(s). For each fuel type	listed, provide
Propane gas @ 39 gal/hr and 19,360	gal/year		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
LPG	-	-	91,502 btu/gal
Li O			71,302 otu/gai

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	5.33	1.33
Nitrogen Oxides (NO _X)	2.67	0.67
Lead (Pb)	0	0
Particulate Matter (PM _{2.5})	0.034	0.008
Particulate Matter (PM ₁₀)	0.034	0.008
Total Particulate Matter (TSP)	0.034	0.008
Sulfur Dioxide (SO ₂)	0.002	0.0005
Volatile Organic Compounds (VOC)	1.33	0.33
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAPs	0.081	0.0202
Formaldehyde	0.073	0.018
Benzene	0.006	0.0014
Toluene	0.002	0.0005
Xylenes	0.001	0.0002
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	РРН	TPY
CO ₂ e	390	97
CH_4	0.08	0.02

For NOx, CO and VOCs, used limits set forth in Table 1 to 40 CFR Part 60, Subpart JJJJ, for SI Emergency Engines

For all other pollutants, calculated using engine specs and AP-42 factors from Table 3.2-3, "Rich-Burn Engines;" however, since no factors exist for LPG, natural gas combustion factors were used.

Excel calculations spreadsheet enclosed as part of this Title V renewal submittal.

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
45CSR§30, Title V Operating Permit Condition 3.4 – Recordkeeping Requirements, Retention of Records
Operating hours are limited to 500 hours/year (100 hours per year for readiness and maintenance testing, included in this total is 50 hours/year for non-emergency use)
40 CFR Part 60, Subpart JJJJ: Standards of Performance for Stationary Spark-Ignition Internal Combustion Engines
40 CFR Part 63, Subpart ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
Record amount and type of fuel combusted in the emergency engine; record hours of operation and reason for operation (emergency, readiness testing, etc.).
Perform and record annual maintenance activities as per 40 CFR Part 60, Subpart JJJJ and 40 CFR Part 63, Subpart ZZZZ.
Are you in compliance with all applicable requirements for this emission unit? X YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E

Materials Handling Emissions Units Part I: Coal, Lime and Ash Handling

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: RCCD	Emission unit name: RCCD	List any control devices associated with this emission unit: Partial Enclosure, Water Spray	
Provide a description of the emission Railcar Coal Unloading, indoor pro			
Manufacturer:	Model number:	Serial number:	
Construction date: 1971	Installation date: 1971	Modification date(s):
Design Capacity (examples: furnace 1,500 tons/hour, 6,925,875 tons/ye			
Maximum Hourly Throughput: 1,500 tons	Maximum Annual Throughput: 6,925,875 tons	Maximum Operating Schedule: 8,760 hours	
Fuel Usage Data (fill out all applicate	ole fields)		
Does this emission unit combust fuel?Yes _x No If yes, is it?			
Indirect FiredDirect F			Direct Fired
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fue). For each fuel type	listed, provide
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.01	0.01
Particulate Matter (PM ₁₀)	0.04	0.09
Total Particulate Matter (TSP)	0.09	0.20
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potentia	1 Emissions
	PPH	TPY
Regulated Pollutants other than	Potentia	l Emissions
Criteria and HAP	РРН	TPY
List the method(s) used to calculate versions of software used, source and		s of any stack tests conducted,
Emissions based upon Section 13.	2.4 (Materials Handling) for AP-42	(Revised 11/2006).
	((

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit-specific applicable requirements for RCCD
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
There are no emissions unit-specific monitoring / testing / recordkeeping / reporting requirements for RCCD
Are you in compliance with all applicable requirements for this emission unit?X_YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: ST-1	Emission unit name: Coal Stockpile	List any control dewith this emission under Spray	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): A 1,000,000 ton coal pile controlled by water spray. This unit consists of wind erosion from the coal pile, all bulldozing and grading operations on the pile (8760 hours/year), and fugitive emissions from the truck unloading of coal. This source also includes fugitive emissions from all materials transfers related to stock-out operations.			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date:	Modification date(s	s):
Design Capacity (examples: furnace N/A	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: 8,760 hours	
Fuel Usage Data (fill out all applicate	ole fields)		
Does this emission unit combust fuel	?Yes _X No	If yes, is it?	
Indirect FiredD		Direct Fired	
Maximum design heat input and/or maximum horsepower rating: N/A		Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fue). For each fuel type	listed, provide
Describe each fuel expected to be use	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	531.26	6.63
Particulate Matter (PM ₁₀)	1,364.55	172.86
Total Particulate Matter (TSP)	2,797.12	632.85
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	РРН	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
Chicha and HAI	PPH	TPY

Emissions based upon Bulldozing activity – AP-42 Section 11.9.2 (Revised 10/1998), Materials Transfer Section – AP-42 Section 13.2.4 (Revised 11/2006) and Industrial Wind Erosion – AP-42 Section 13.2.5 (Revised 11/2006).

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit-specific applicable requirements for ST-1
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
There are no emissions unit-specific monitoring / testing / recordkeeping / reporting requirements for ST-1
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
1110 you in compnance with an applicable requirements for this emission unit: _A_1es

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: ST-2	Emission unit name: Ash Disposal Areas	List any control dewith this emission water Spray	
Provide a description of the emission An approximately 64,320,000-ton a erosion from the ash disposal pile, fugitive emissions from the loading.	ish disposal area controlled by wat all bulldozing and grading operatio	er spray. This unit cons on the pile (160 l	onsists of wind nours/year), and
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1971	Modification date(s):	
Design Capacity (examples: furnace 64,320,000 tons	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: 8,760 hours for all except 160 hours/year flyash surface bulldozing	
Fuel Usage Data (fill out all applicab	ole fields)		
Does this emission unit combust fuel	?Yes _X No	If yes, is it? Indirect Fired	Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if a the maximum hourly and annual fue). For each fuel type	listed, provide
Describe each fuel expected to be use	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential	Emissions
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	287.07	0.58
Particulate Matter (PM ₁₀)	858.63	6.98
Total Particulate Matter (TSP)	1,888.81	20.79
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential	Emissions
	PPH	TPY
Regulated Pollutants other than	Potential	Emissions
Criteria and HAP	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Emissions based upon Bulldozing activity – AP-42 Section 11.9.2 (Revised 10/1998), Materials Transfer Section – AP-42 Section 13.2.4 (Revised 11/2006) and Industrial Wind Erosion – AP-42 Section 13.2.5 (Revised 11/2006).

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.
Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units
MH-1 Limit on amount of bottom ash transported MH-2 Limit on amount of fly ash transported MH-3 Limit on amount of fly ash disposed in landfill MH-4 Limit on amount of FGD sludge disposed of MH-5 Limit on fly ash surface bulldozing operations MH-6 Minimum stabilized sludge moisture content
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.
MHTRR-1 Method of calculation MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F .

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control dev	
BH Conv	Boilerhouse Conveyors	with this emission u	ınit:
		Partial Enclosure	
Provide a description of the emission All boiler-house conveyors (and as C-6a/b.			
Manufacturer:	Model number:	Serial number:	
N/A	N/A	N/A	
Construction date:	Installation date: 1971	Modification date(s):
Design Capacity (examples: furnace 1,500 tons/hour	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput 1,500 tons	Maximum Annual Throughput: 6,925,875 tons	Maximum Operation 8,760 hours	ng Schedule:
Fuel Usage Data (fill out all applicate	ole fields)		
Does this emission unit combust fuel	?Yes _x No	If yes, is it?	
		Indirect Fired	Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fue). For each fuel type	listed, provide
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential	Emissions
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.07	0.16
Particulate Matter (PM ₁₀)	0.62	1.42
Total Particulate Matter (TSP)	1.61	3.71
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential	Emissions
	PPH	TPY
Regulated Pollutants other than	Potential	Emissions
Criteria and HAP	РРН	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit-specific requirements for BH Conv
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
There are no emissions unit-specific testing, recordkeeping, reporting requirements for BH Conv
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: C-12	Emission unit name: Conveyor -12	List any control dev with this emission un Partial Enclosure	
Provide a description of the emission Conveyor from Surge Bin to Lower			.):
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1971	Modification date(s):
Design Capacity (examples: furnace 1,500 tons/hour	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput 1,500 tons	Maximum Annual Throughput: 6,925,875 tons	Maximum Operating Schedule: 8,760 hours	
Fuel Usage Data (fill out all applicat	ole fields)		
Does this emission unit combust fuel	?Yes _X No	If yes, is it?	
		Indirect Fired	Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fue). For each fuel type	listed, provide
Describe each fuel expected to be us	ed during the term of the permit.	,	
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potentia	l Emissions
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.06	0.14
Particulate Matter (PM ₁₀)	0.58	1.33
Total Particulate Matter (TSP)	1.52	3.51
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potentia	l Emissions
	РРН	TPY
Regulated Pollutants other than	Potentia	l Emissions
Criteria and HAP	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

- 1. Applicable Requirements
- 2. List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.	There are no emissions unit-specific requirements for C-12
20.	X Permit Shield
21.	For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38.	There are no emissions unit-specific testing, recordkeeping, reporting requirements for C-12
41.	Are you in compliance with all applicable requirements for this emission unit?X_YesNo
42.	If no, complete the Schedule of Compliance Form as ATTACHMENT F .

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: C-1	Emission unit name: Conveyor -1	List any control dewith this emission under the Partial Enclosure	
Provide a description of the emission Conveyor from Crusher House to Low		- ·	.):
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1971	Modification date(s):
Design Capacity (examples: furnace 1,500 tons/hour	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput 1,500 tons	Maximum Annual Throughput 6,925,875 tons	Maximum Operating Schedule: 8,760 hours	
Fuel Usage Data (fill out all applical	ole fields)		
Does this emission unit combust fuel?Yes _X No If yes, is it?			
		Indirect FiredDirect Fired	
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fu		s). For each fuel type	listed, provide
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Criteria Pollutants	Potential	Emissions
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.06	0.14
Particulate Matter (PM ₁₀)	0.58	1.33
Total Particulate Matter (TSP)	1.52	3.51
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential	Emissions
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential	Emissions
	PPH	TPY

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit-specific requirements for C-1
_X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating
be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: C-3a/b	Emission unit name: Conveyor -3a/b	List any control dev with this emission un Partial Enclosure	
Provide a description of the emission Conveyor from Coal Reclaim to Cr			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1971	Modification date(s):
Design Capacity (examples: furnace 1,500 tons/hour	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput 1,500 tons	Maximum Annual Throughput: 6,925,875 tons	Maximum Operation 8,760 hours	ng Schedule:
Fuel Usage Data (fill out all applical	ole fields)		
Does this emission unit combust fuel?Yes _X_ No If yes, is it?			
		Indirect Fired	Direct Fired
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fu). For each fuel type	listed, provide
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.07	0.16
Particulate Matter (PM ₁₀)	0.62	1.42
Cotal Particulate Matter (TSP)	1.61	3.71
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
CITICITA AND TIAN	PPH	TPY

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit-specific requirements for C-3a/b
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
There are no emissions unit-specific testing, recordkeeping, reporting requirements for C-3a/b
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F .

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: C-4a/b	Emission unit name: Conveyor-4a/b	List any control dewith this emission of Partial Enclosure	
Provide a description of the emission Conveyor from Crusher House to E			.):
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1971	Modification date(s	i):
Design Capacity (examples: furnace 1,500 tons/hour	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput 1,500 tons	Maximum Annual Throughput: 6,925,875 tons	Maximum Operation 8,760 hours	ng Schedule:
Fuel Usage Data (fill out all applical	ole fields)		
Does this emission unit combust fuel?Yes _X No If yes, is it?			
		Indirect Fired	Direct Fired
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fue). For each fuel type	listed, provide
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.06	0.14
Particulate Matter (PM ₁₀)	0.58	1.33
Total Particulate Matter (TSP)	1.52	3.51
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
Criteria and HAF	PPH	TPY

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit-specific requirements for C-4a/b
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
There are no emissions unit-specific testing, recordkeeping, reporting requirements for C-4a/b
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no complete the Schedule of Compliance Form as ATTACHMENT F

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: RC-7	Emission unit name: Conveyor RC-7	List any control dewith this emission under the Partial Enclosure	
Provide a description of the emission Conveyor from Rail Dumper to RC		esign parameters, etc	.):
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1971	Modification date(s	i):
Design Capacity (examples: furnace 1,500 tons/hour	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput 1,500 tons	Maximum Annual Throughput: 6,925,875 tons	Maximum Operation 8,760 hours	ng Schedule:
Fuel Usage Data (fill out all applical	ole fields)		
Does this emission unit combust fue	?Yes _X No	If yes, is it?	
		Indirect Fired	Direct Fired
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fu		s). For each fuel type	listed, provide
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
itrogen Oxides (NO _X)		
ead (Pb)		
articulate Matter (PM _{2.5})	0.06	0.13
Particulate Matter (PM ₁₀)	0.54	1.24
Total Particulate Matter (TSP)	1.44	3.31
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
Спина ани пар	PPH	TPY

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit-specific requirements for RC-7
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
There are no emissions unit-specific testing, recordkeeping, reporting requirements for RC-7
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no complete the Schedule of Compliance Form as ATTACHMENT F

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number: RC-8	Emission unit name: Conveyor RC-8	List any control dewith this emission un Partial Enclosure	
Provide a description of the emission Conveyor from RC-7 to Crusher Hous		esign parameters, etc	.):
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1971	Modification date(s	s):
Design Capacity (examples: furnace 1,500 tons/hour	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput 1,500 tons	Maximum Annual Throughput: 6,925,875 tons	Maximum Operation 8,760 hours	ng Schedule:
Fuel Usage Data (fill out all applical	ole fields)	1	
Does this emission unit combust fue	?Yes _x No	If yes, is it?	
		Indirect Fired	Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fu		s). For each fuel type	listed, provide
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.03	0.07
Particulate Matter (PM ₁₀)	0.30	0.66
Total Particulate Matter (TSP)	0.81	1.76
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	PPH	TPY
List the method(s) used to calculate the	potential emissions (include dat	es of any stack tests conducted
versions of software used, source and da		
Emissions based upon Conveyor activi		evised 8/2004) and Material
Transfers – AP-42 Section 13.2.4 (Rev	ised 11/2006).	

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit-specific requirements for RC-8
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
There are no emissions unit-specific testing, recordkeeping, reporting requirements for RC-8
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F .

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: MC-7	Emission unit name: Conveyor –MC-7	List any control dev with this emission un Partial Enclosure		
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Conveyor from Mine to Crusher House (and all associated fugitive emissions from 4 associated transfer houses).				
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1971	Modification date(s):		
Design Capacity (examples: furnace 1,500 tons/hour	es - tons/hr, tanks - gallons):			
Maximum Hourly Throughput 1,500 tons	Maximum Annual Throughput: 6,925,875 tons	Maximum Operating Schedule: 8,760 hours		
Fuel Usage Data (fill out all applical	ble fields)			
Does this emission unit combust fue	1?Yes _X No	If yes, is it?		
		Indirect FiredDirect Fired		
Maximum design heat input and/or	maximum horsepower rating:	num horsepower rating: Type and Btu/hr rating of burners:		
List the primary fuel type(s) and if a the maximum hourly and annual fu). For each fuel type	listed, provide	
Describe each fuel expected to be us	ed during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.07	0.17
Particulate Matter (PM ₁₀)	0.66	1.52
Total Particulate Matter (TSP)	1.69	3.91
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potenti	al Emissions
	PPH	TPY
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	PPH	TPY
List the method(s) used to calculate the versions of software used, source and of the control of	lates of emission factors, etc.).	es of any stack tests conducted evised 8/2004) and Material

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit-specific requirements for RC-8
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
There are no emissions unit-specific testing, recordkeeping, reporting requirements for MC-7
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: C-2b	Emission unit name: Conveyor -2b	List any control dewith this emission under the Partial Enclosure		
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Conveyor from Chute to Lowering Well #1 (and all associated transfers).				
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1971	Modification date(s	i):	
Design Capacity (examples: furnace 800 tons/hour	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput 800 tons	Maximum Annual Throughput: 6,925,875 tons	Maximum Operating Schedule: 8,760 hours		
Fuel Usage Data (fill out all applical	ole fields)			
Does this emission unit combust fue	?Yes _X No	If yes, is it?		
		Indirect FiredDirect Fired		
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners		ting of burners:		
List the primary fuel type(s) and if a the maximum hourly and annual fu). For each fuel type	listed, provide	
Describe each fuel expected to be us	ed during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.03	0.07
Particulate Matter (PM ₁₀)	0.30	0.67
Total Particulate Matter (TSP)	0.81	1.76
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	РРН	TPY
List the method(s) used to calculate the pe	otential emissions (include dat	es of any stack tests conducted
versions of software used, source and date		•
Emissions based upon Conveyor activity		evised 8/2004) and Material
Transfers – AP-42 Section 13.2.4 (Revis		,
1101101615 - AF-42 SECTION 13.2.4 (REVIS	ocu i 1/2000).	

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit-specific requirements for C-2b
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
There are no emissions unit-specific testing, recordkeeping, reporting requirements for C-2b
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F .

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: C-10	Emission unit name: Conveyor -10	List any control dewith this emission under the Partial Enclosure		
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Internal Crusher House Conveyor to Surge Bin (and all associated transfers).				
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1971	Modification date(s	s):	
Design Capacity (examples: furnace 1,500 tons/hour	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput 1,500 tons	Maximum Annual Throughput: 6,925,875 tons	Maximum Operation 8,760 hours	ng Schedule:	
Fuel Usage Data (fill out all applical	ole fields)			
Does this emission unit combust fue	?Yes _X No	If yes, is it?		
		Indirect FiredDirect Fired		
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners		ting of burners:		
List the primary fuel type(s) and if a the maximum hourly and annual fu). For each fuel type	listed, provide	
Describe each fuel expected to be us	ed during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Cuitania Dallatanta		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.05	0.11
Particulate Matter (PM ₁₀)	0.50	1.14
Total Particulate Matter (TSP)	1.35	3.12
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potent	ial Emissions
	РРН	TPY
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	РРН	TPY
List the method(s) used to calculate the pe	otential emissions (include da	tes of any stack tests conducted
versions of software used, source and date		my some vosts conducted
Emissions based upon Conveyor activity Transfers – AP-42 Section 13.2.4 (Revis		Revised 8/2004) and Material

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit-specific requirements for C-10
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
There are no emissions unit-specific testing, recordkeeping, reporting requirements for C-10
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: C-11	Emission unit name: Conveyor 11	List any control dewith this emission under the Partial Enclosure		
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Internal Crusher House Conveyor from Surge Bin (and all associated transfers).				
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1979	Modification date(s	s):	
Design Capacity (examples: furnace 1,500 tons/hour	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput 1,500 tons	Maximum Annual Throughput: 6,925,875 tons	Maximum Operation 8,760 hours	ng Schedule:	
Fuel Usage Data (fill out all applical	ole fields)	I		
Does this emission unit combust fue	?Yes _X No	If yes, is it?		
		Indirect FiredDirect Fired		
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners		ting of burners:		
List the primary fuel type(s) and if a the maximum hourly and annual fue). For each fuel type	listed, provide	
Describe each fuel expected to be us	ed during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.05	0.06
Particulate Matter (PM ₁₀)	0.50	0.57
Total Particulate Matter (TSP)	1.35	1.56
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	PPH	TPY
List the method(s) used to calculate the p versions of software used, source and dat		es of any stack tests conducted,
		1. 10/000 ()
Emissions based upon Conveyor activit Transfers – AP-42 Section 13.2.4 (Revis		evised 8/2004) and Material

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit-specific requirements for C-11
_X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
There are no emissions unit-specific testing, recordkeeping, reporting requirements for C-11
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control devices associated	
CRU-01	Coal Crusher 01	with this emission unit: Full Enclosure, Water Spray	
Provide a description of the emission This emission unit is 1 of 3 1500 TI			.):
Manufacturer:	Model number:	Serial number:	
Pennsylvania Crusher Corp.	TK8 – 72CD	N/A	
Construction date:	Installation date:	Modification date(s):
	1971		
Design Capacity (examples: furnace 1,500 tons/hour	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput	Maximum Annual Throughput:	Maximum Operation	ng Schedule:
1,500 tons	6,925,875 tons	8,760 hours	
Fuel Usage Data (fill out all applicat	ole fields)		
Does this emission unit combust fuel	?Yes _X_ No	If yes, is it?	
		Indirect Fired	Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fue). For each fuel type	listed, provide
Describe each fuel expected to be us	ed during the term of the permit		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
VI -			

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.08	0.17
Particulate Matter (PM ₁₀)	1.80	4.16
Total Particulate Matter (TSP)	4.05	9.35
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	РРН	TPY
List the method(s) used to calculate the p versions of software used, source and da	tes of emission factors, etc.).	
	tes of emission factors, etc.). - AP-42 Section 11.19.2 (Rev	

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit-specific requirements for CRU-01
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
There are no emissions unit-specific testing, recordkeeping, reporting requirements for CRU-01
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo
If no complete the Schedule of Compliance Form as ATTACHMENT F

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: CRU-02	Emission unit name: Coal Crusher 02	List any control devices associated with this emission unit: Full Enclosure, Water Spray		
51.0 0 <u>2</u>	Godi Gradiloi 62			
Provide a description of the emission This emission unit is 1 of 3 1500 TI):	
Manufacturer: Pennsylvania Crusher Corp.	Model number: TK8 – 72CD	Serial number: N/A		
Construction date:	Installation date: 1972	Modification date(s):		
Design Capacity (examples: furnace 1,500 tons/hour	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput 1,500 tons	Maximum Annual Throughput: 6,925,875 tons	Maximum Operatin 8,760 hours	ng Schedule:	
Fuel Usage Data (fill out all applicate	ole fields)			
Does this emission unit combust fuel	?Yes _X No	If yes, is it?		
		Indirect Fired	Direct Fired	
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners:				
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.				
Describe each fuel expected to be us	ed during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	
V1				

0.17 4.16 9.35
0.17 4.16 9.35
4.16 9.35
4.16 9.35
4.16 9.35
4.16 9.35
9.35
issions
issions
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TPY
issions
TPY
any stack tests conducted,
8/2004) and Material Transfer
•

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit-specific requirements for CRU-02
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number
or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
or citation. (Note: Each requirement listed above must have an associated method of demonstrating
or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: CRU-03	Emission unit name: Coal Crusher 03	List any control devices associated with this emission unit: Full Enclosure, Water Spray		
Provide a description of the emission unit (type, method of operation, design parameters, etc.): This emission unit is 1 of 3 1500 TPH Coal Crushers at Harrison Station.				
Manufacturer: Pennsylvania Crusher Corp.	Model number: TK8 – 72CD	Serial number: N/A		
Construction date:	Installation date: 1977	Modification date(s):		
Design Capacity (examples: furnace 1,500 tons/hour	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput 1,500 tons	Maximum Annual Throughput: 6,925,875 tons	Maximum Operation 8,760 hours	ng Schedule:	
Fuel Usage Data (fill out all applicab	ole fields)			
Does this emission unit combust fuel	?Yes _X No	If yes, is it? Indirect Fired	Direct Fired	
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners:				
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.				
Degaribe as ab fivel armosted to be use	ad during the term of the normit			
Describe each fuel expected to be use	<u> </u>	Max. Ash Content	DTH Value	
Fuel Type	Max. Sulfur Content	wiax. Asii Content	BTU Value	

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.08	0.17
Particulate Matter (PM ₁₀)	1.80	4.16
Total Particulate Matter (TSP)	4.05	9.35
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than	Potenti	ial Emissions
Criteria and HAP	PPH	TPY
List the method(s) used to calculate the poversions of software used, source and dates	s of emission factors, etc.).	
Emissions based upon Crusher activity – – AP-42 Section 13.2.4 (Revised 11/2006		vised 8/2004) and Material Transfel

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
M aterials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement code below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate M aterials H andling T esting/ R ecordkeeping/ R eporting (" MHTRR ") requirements in Table MH-TRR.
Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units
MH-7 Opacity Limit
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.
MHTRR-4 Monitoring and Testing Requirements MHTRR-5 Performance Test Methods MHTRR-6 Records Retention
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo

Materials Handling Emissions Units Completed "Attachment E" Forms

Part II - Lime Unloading Circuit

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control devices associated with this emission unit: Baghouse dust collectors 6ca, 6cb 6cc, Vacuum system 6cd	
LROH	LROH		
Provide a description of the emissio Railcar Lime Unloading Transfer H collectors, and supplemented with	loppers (4) and transfers to Lime U		
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1994	Modification date(s	s):
Design Capacity (examples: furnace 380 tons/hour, 627,546 tons/year l			
Maximum Hourly Throughput: 380 tons	Maximum Annual Throughput: 627,546 tons	Maximum Operation 2,920 hours	ng Schedule:
Fuel Usage Data (fill out all applical	ble fields)	I	
Does this emission unit combust fue	1?Yes _ <u>X</u> No	If yes, is it?	
		Indirect Fired	Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if the maximum hourly and annual fu		s). For each fuel type	listed, provide
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

missions Data		
riteria Pollutants	Potential Emissions	
	PPH	TPY
arbon Monoxide (CO)		
trogen Oxides (NO _X)		
ad (Pb)		
articulate Matter (PM _{2.5})	14.96	21.84
articulate Matter (PM ₁₀)	14.96	21.84
otal Particulate Matter (TSP)	14.96	21.84
ulfur Dioxide (SO ₂)		
olatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	PPH	TPY

versions of software used, source and dates of emission factors, etc.).

Emissions based upon outlet grain loading of 0.009 gr/cf, for collectors 6ca, 6cb, and 6cc (combining for 175,000 cfm), and collector 6cd with grain loading of 0.18 gr/cf and 947 cfm rating.

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units

- MH-8 Throughput Limits and Control Equipment Requirements
- MH-9 Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits
- MH-10 Limit on Annual Input to Lime Handling System
- MH-11 Hours Limit on Lime Unloading Operations:
- MH-12 Opacity Limit Process Sources
- MH-14 Particulate Weight Emission Limits Process Sources
- MH-15 Process Fugitive Particulate Control Requirement

__X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? __X Yes ___No

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: 6si, 6sj	Emission unit name: 6si, 6sj	List any control dewith this emission under Baghouse dust collect	ınit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Lime Unloading Conveyor Belts (2) from the Railcar Unloading Transfer Hoppers to the Lime Transfer/Storage conveyors. These conveyors are vented to common dust collectors (6ca, 6cb, and 6cc).				
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1994	Modification date(s	s):	
Design Capacity (examples: furnace 450 tons/hour, 627,546 tons/year L		L		
Maximum Hourly Throughput: 450 tons (each)	Maximum Annual Throughput: 627,546 tons (each)	Maximum Operating Schedule: 2,920 hours (each)		
Fuel Usage Data (fill out all applicat	ole fields)			
Does this emission unit combust fuel	?Yes _ <u>X</u> No	If yes, is it?		
		Indirect Fired	Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.				
Describe each fuel expected to be used during the term of the permit.				
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

0.00 0.00 0.00 0.00
0.00 0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 Emissions
missions
TPY
missions
TPY
of any stack tests conducted,
ontrolled by building baghouse

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-10	Limit on Annual Input to Lime Handling System
MH-11	Operating Hours Limit on Lime Unloading Operations
MH-12	Opacity Limit – Process Sources
MH-14	Particulate Weight Emission Limits – Process Sources
MH-15	Process Fugitive Particulate Control Requirement

X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ___No

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: 8sa, 8sb, 8sg, 8sh	Emission unit name: 8sa, 8sb, 8sg, 8sh	List any control dev with this emission un Baghouse Dust Co	ınit:	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Two (2) Lime Transfer Conveyor Belts, each rated at 450 TPH, and two (2) Lime Storage Conveyor Belts each rated at 900 TPH, as well as associated Dribble conveyors, all enclosed and venting to a common dust collector (8c).				
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1994	Modification date(s):	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 450 tons/hour, 627,546 tons/year Lime (each transfer conveyor) 900 tons/hour, 627,546 tons/year Lime (each storage conveyor)				
Maximum Hourly Throughput: 450 TPH (each transfer conv.) 900 TPH (each storage conv.)	Maximum Annual Throughput: 627,546 tons (each)	Maximum Operation 2,920 hours	ng Schedule:	
Fuel Usage Data (fill out all applicab	ole fields)			
Does this emission unit combust fuel	?Yes _X No	If yes, is it?		
		Indirect Fired	Indirect Fired Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.				
Describe each fuel expected to be use	ed during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.72	1.05
Particulate Matter (PM ₁₀)	0.72	1.05
Total Particulate Matter (TSP)	0.72	1.05
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potenti	al Emissions
	PPH	TPY
Regulated Pollutants other than	Potenti	ial Emissions
Criteria and HAP	РРН	TPY
List the method(s) used to calculate the p	otential emissions (include dat	tes of any stack tests conducted.
versions of software used, source and date		······································
Emissions based upon outlet grain load	ing of 0.003 gr/cf, and 28,000	cfm collector for collector 8c.

Applicable Requirements List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter. this information should also be included. Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR. Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units. MH-8 Throughput Limits and Control Equipment Requirements MH-10 Limit on Annual Input to Lime Handling System MH-11 Operating Hours Limit on Lime Unloading Operations MH-12 Opacity Limit - Process Sources MH-14 Particulate Weight Emission Limits – Process Sources MH-15 Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _ X_Yes ____No

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control de	
13	13	with this emission u Dust Collector 9c	ınit:
		Dust Collector 90	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Lime Storage Silo with a 101,788-ton capacity, fed by enclosed conveyor (9va) and vented to Dust Collector 9c.			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1994	Modification date(s	s):
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 313,773 tons/year Lime			
Maximum Hourly Throughput	Maximum Annual Throughput: 313,773 tons	Maximum Operation 8,760 hours	ng Schedule:
Fuel Usage Data (fill out all applicat	ole fields)	l	
Does this emission unit combust fuel	!?YesX No	If yes, is it?	
		Indirect Fired	Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Pollutants Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.26	0.38
Particulate Matter (PM ₁₀)	0.26	0.38
Total Particulate Matter (TSP)	0.26	0.38
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Poter	ntial Emissions
	PPH	TPY
Regulated Pollutants other than	Poter	ntial Emissions
Criteria and HAP	РРН	TPY
List the method(s) used to calculate the	notantial amissions (include d	lates of any stock tests conducted
versions of software used, source and d		ates of any stack tests conducted,
Emissions based upon dust collector	9c, outlet grain loading of 0.0	03 gr/cf, and 10,000 cfm collector.
·	, 3	,

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits
MH-12	Opacity Limit – Process Sources
MH-13	Visible Emissions Limit – Storage Structures
MH-14	Particulate Weight Emission Limits – Process Sources
MH-15	Process Fugitive Particulate Control Requirement

X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ___No

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control dev	
14	14	with this emission under the Dust Collector 10c	
		Buot Collector 100	
Provide a description of the emission Lime Storage Silo with a 101,788-t Collector 10c.			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1994	Modification date(s	s):
Design Capacity (examples: furnace 313,773 tons/year Lime	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput	Maximum Annual Throughput: 313,773 tons	Maximum Operation 8,760 hours	ng Schedule:
Fuel Usage Data (fill out all applical	ole fields)	1	
Does this emission unit combust fue	!? Yes _ <u>X</u> No	If yes, is it?	
		Indirect Fired	Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fu). For each fuel type	listed, provide
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Pollutants Potential Emissions	
РРН	TPY
0.26	0.38
0.26	0.38
0.26	0.38
Potenti	al Emissions
PPH	TPY
Potential Emissions	
PPH	TPY
	es of any stack tests conducted,
c, outlet grain loading of 0.00	3 gr/cf, and 10,000 cfm collector.
	PPH O.26 O.26 O.26 Potenti PPH Potenti PPH Cotential emissions (include dates of emission factors, etc.).

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits
MH-12	Opacity Limit – Process Sources
MH-13	Visible Emissions Limit – Storage Structures
MH-14	Particulate Weight Emission Limits – Process Sources
MH-15	Process Fugitive Particulate Control Requirement

X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ___No

Materials Handling Emissions Units Completed "Attachment E" Forms

Part III - Emergency Lime Storage Circuit

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control dev	
11va, 12va	11va, 12va	with this emission u	
		Full Eliciosule to F	ablic Filler
Provide a description of the emission Emergency Lime Pneumatic Delive 150 ton Emergency Lime Bins 37 a	ery Conveyor from trucks, with a 75		
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1994	Modification date(s	s):
Design Capacity (examples: furnace 75 tons/hour	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput	Maximum Annual Throughput: n/a	Maximum Operation 2,920 hours	ng Schedule:
Fuel Usage Data (fill out all applicat	ole fields)		
Does this emission unit combust fuel	!?Yes _ <u>X</u> No	If yes, is it?	
		Indirect Fired	Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	ria Pollutants Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.00	0.00
Particulate Matter (PM ₁₀)	0.00	0.00
Total Particulate Matter (TSP)	0.00	0.00
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potentia	l Emissions
	PPH	TPY
Regulated Pollutants other than	Potentia	l Emissions
Criteria and HAP	PPH	TPY
List the method(s) used to calculate the pe	otential emissions (include date	es of any stack tests conducted,
versions of software used, source and date	es of emission factors, etc.).	
Emissions for these sources are contain	ned within the Emergency Lime	e Bin (dust collector 9c).

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits
MH-10	Limit on Annual Input to Lime Handling System
MH-11	Operating Hours Limit on Lime Unloading Operations
MH-12	Opacity Limit – Process Sources
MH-14	Particulate Weight Emission Limits – Process Sources
MH-15	Process Fugitive Particulate Control Requirement
	•

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? X Yes No

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control de	
37	37	with this emission u Dust Collector 11c	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): A 150 ton Emergency Lime Storage Bin, with pneumatic conveyor fill, and transfer to Lime Silos. This source is controlled by dust collector 11c.			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1994	Modification date(s):	
Design Capacity (examples: furnace 150 tons	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput	Maximum Annual Throughput: 627,546 TPY	Maximum Operating Schedule: 2,920 hours	
Fuel Usage Data (fill out all applical	ole fields)	1	
Does this emission unit combust fuel?Yes _X No If yes, is it?			
		Indirect Fired	Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO _X)			
Lead (Pb)			
Particulate Matter (PM _{2.5})	0.05	0.08	
Particulate Matter (PM ₁₀)	0.05	0.08	
Total Particulate Matter (TSP)	0.05	0.08	
Sulfur Dioxide (SO ₂)			
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potentia	al Emissions	
	РРН	TPY	
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP	РРН	TPY	
List the method(s) used to calculate the p		es of any stack tests conducted,	
versions of software used, source and date	tes of emission factors, etc.).		
Emissions based upon dust collector 9d	c, with grain loading of 0.003 g	gr/cf, and rated at 2,100 cfm.	

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits
MH-10	Limit on Annual Input to Lime Handling System
MH-11	Operating Hours Limit on Lime Unloading Operations
MH-12	Opacity Limit – Process Sources
MH-13	Visible Emissions Limit – Storage Structures
MH-14	Particulate Weight Emission Limits – Process Sources
MH-15	Process Fugitive Particulate Control Requirement
	·

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _ X_Yes ___No

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control de	
38	38	with this emission under the Dust Collector 12c	
		Dust Collector 120	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): A 150-ton Emergency Lime Storage Bin, with pneumatic conveyor fill, and transfer to Lime Silos. This source is controlled by dust collector 12c.			
Manufacturer:	Model number:	Serial number:	
Construction date: 01/01/1994	Installation date: 12/31/1994	Modification date(s): n/a	
Design Capacity (examples: furnace 150 tons	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput n/a	Maximum Annual Throughput: n/a	Maximum Operating Schedule: 2,920 hours	
Fuel Usage Data (fill out all applicat	ole fields)	l	
Does this emission unit combust fuel?Yes _X No If yes, is it?			
		Indirect Fired	Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr rating of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data			
Criteria Pollutants	Potential Emissions		
	РРН	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO _X)			
Lead (Pb)			
Particulate Matter (PM _{2.5})	0.05	0.08	
Particulate Matter (PM ₁₀)	0.05	0.08	
Total Particulate Matter (TSP)	0.05	0.08	
Sulfur Dioxide (SO ₂)			
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP	РРН	TPY	
List the method(s) used to calculate the p		tes of any stack tests conducted,	
versions of software used, source and dat	tes of emission factors, etc.).		
Emissions based upon dust collector 9d	c, with grain loading of 0.003	gr/cf, and rated at 2,100 cfm.	

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits
MH-10	Limit on Annual Input to Lime Handling System
MH-11	Operating Hours Limit on Lime Unloading Operations
MH-12	Opacity Limit – Process Sources
MH-13	Visible Emissions Limit – Storage Structures
MH-14	Particulate Weight Emission Limits – Process Sources
MH-15	Process Fugitive Particulate Control Requirement

X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ___No

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control dev	
9va, 10va	9va, 10va	with this emission u	
		Full Enclosure to F	abric Filter
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Fully enclosed Pneumatic Conveyors (2) between Emergency Lime Bins and Lime Storage Silos (collectors 9c and 10c).			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1994	Modification date(s):	
Design Capacity (examples: furnace	s - tons/hr, tanks - gallons):	I	
Maximum Hourly Throughput N/A	Maximum Annual Throughput: 627,546 TPY	Maximum Operating Schedule: 2,920 hours	
Fuel Usage Data (fill out all applical	ole fields)		
Does this emission unit combust fuel?Yes _X No If yes, is it?			
		Indirect Fired	Direct Fired
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO _X)			
Lead (Pb)			
Particulate Matter (PM _{2.5})	0.00	0.00	
Particulate Matter (PM ₁₀)	0.00	0.00	
Total Particulate Matter (TSP)	0.00	0.00	
Sulfur Dioxide (SO ₂)			
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potent	ial Emissions	
	РРН	TPY	
Regulated Pollutants other than	Potent	ial Emissions	
Criteria and HAP	РРН	TPY	
List the method(s) used to calculate the p versions of software used, source and dat Emissions for these sources are include	es of emission factors, etc.).		
these pneumatic conveyors.			

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits
MH-10	Limit on Annual Input to Lime Handling System
MH-11	Operating Hours Limit on Lime Unloading Operations
MH-12	Opacity Limit – Process Sources
MH-14	Particulate Weight Emission Limits – Process Sources
MH-15	Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? X Yes No

Materials Handling Emissions Units Completed "Attachment E" Forms

Part IV - Lime Slurry Handling Circuit

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number:	Emission unit name:	List any control dev		
24v, 25v, 26v, 27v	24v, 25v, 26v, 27v	with this emission u Full Enclosure to W		
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Four (4) Identical 30 TPH Slaker Delivery Screw Conveyors, each fully enclosed, venting into a Ball-Mill slaker (24s, 25s, 26s, and 27s) equipped with a wet scrubber dust collector (collectors 24-27c).				
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1994	Modification date(s):		
Design Capacity (examples: furnace N/A	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput 30 TPH (each)	Maximum Annual Throughput: 262,800 tons (each)	Maximum Operating Schedule: 8,760 hours		
Fuel Usage Data (fill out all applicate	ole fields)			
Does this emission unit combust fuel	?Yes _ <u>X</u> No	If yes, is it?		
		Indirect Fired	Direct Fired	
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners:			ting of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.				
Describe each fuel expected to be used during the term of the permit.				
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Criteria Pollutants			
	Potenti	Potential Emissions	
	PPH	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO _X)			
Lead (Pb)			
Particulate Matter (PM _{2.5})	0.00	0.00	
Particulate Matter (PM ₁₀)	0.00	0.00	
Total Particulate Matter (TSP)	0.00	0.00	
Sulfur Dioxide (SO ₂)			
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potenti	al Emissions	
	PPH	TPY	
Regulated Pollutants other than	Potenti	al Emissions	
Criteria and HAP	PPH	TPY	
List the method(s) used to calculate the present of software used, source and da		es of any stack tests conducted,	
Emissions for these fully enclosed con-	veyors are contained within the	e Ball-Mill slaker wet scrubber	
emissions for these fully enclosed con- collectors (24-27c).	veyors are contained within the	e Baii-Miii siaker wet scrudd	

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits
MH-12	Opacity Limit – Process Sources
MH-14	Particulate Weight Emission Limits – Process Sources
MH-15	Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ___No

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: 24s, 25s, 26s, 27s	Emission unit name: 24s, 25s, 26s, 27s	List any control devices associa with this emission unit:	
245, 205, 205, 275	245, 205, 205, 275	Wet Scrubbers 24d	c, 25c, 26c, 27c
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Four (4) Identical Ball-Mill slakers, each with a 30 TPH, and 262,800 TPY capacity, equipped with a wet scrubber dust collector (collectors 24-27c).			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1994	Modification date(s	s):
Design Capacity (examples: furnace N/A	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput 30 TPH (each)	Maximum Annual Throughput: 262,800 tons (each)	Maximum Operation 8,760 hours	ng Schedule:
Fuel Usage Data (fill out all applicat	ole fields)		
Does this emission unit combust fuel?Yes _X No If yes, is it?			
		Indirect FiredDirect Fired	
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burn			ting of burners:
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

	РРН	TPY
Carbon Monoxide (CO) Nitrogen Oxides (NO _X)		
Nitrogen Oxides (NO _X)		
£,		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.31	1.35
Particulate Matter (PM ₁₀)	0.31	1.35
Total Particulate Matter (TSP)	0.31	1.35
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than	Potentia	l Emissions
Criteria and HAP	РРН	TPY
List the method(s) used to calculate the potent versions of software used, source and dates of		s of any stack tests conducted,
Emissions based upon the combined outlet of 0.009 gr/cf, and 1,000 cfm.	grain loading of shared du	ist collectors 24-27c, each rated a

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements

MH-9 Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits

MH-12 Opacity Limit – Process Sources

MH-14 Particulate Weight Emission Limits – Process Sources
MH-15 Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? X Yes No

Materials Handling Emissions Units Completed "Attachment E" Forms

Part V - Lime Handling Circuit

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number:	Emission unit name:	List any control devices associate with this emission unit:		
15va, 16va, 17va	15va, 16va, 17va	Full Enclosure to F	abric Filter	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Solid Waste Processing Lime Silo Loading Pneumatic Conveyors (3), each fully enclosed with a 25 ton/hour capacity, from the Lime Crushers to the SW Lime silos, with each SW Lime silo dust collector controlling these emissions.				
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1994	Modification date(s):	
Design Capacity (examples: furnace 25 tons/hour (each)	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput 25 tons/hour (each)	Maximum Annual Throughput: 115,623 tons/year	Maximum Operation 8,760 hours	ng Schedule:	
Fuel Usage Data (fill out all applical	ole fields)			
Does this emission unit combust fuel?Yes _X No If yes, is it?				
		Indirect Fired	Direct Fired	
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners:				
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.				
Describe each fuel expected to be used during the term of the permit.				
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Emissions Data			
Criteria Pollutants	Potential Emissions		
	РРН	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO _X)			
Lead (Pb)			
Particulate Matter (PM _{2.5})	0.00	0.00	
Particulate Matter (PM ₁₀)	0.00	0.00	
Total Particulate Matter (TSP)	0.00	0.00	
Sulfur Dioxide (SO ₂)			
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potent	tial Emissions	
	РРН	TPY	
Regulated Pollutants other than	Potent	tial Emissions	
Criteria and HAP	PPH	TPY	
List the method(s) used to calculate the p	ootential emissions (include da	ates of any stack tests conducted,	
versions of software used, source and dat	tes of emission factors, etc.).		
Emissions for these fully enclosed sour	ces are contained within the	SWP Lime Silos dust collectors 15c-	
17c.			

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits

MH-12 Opacity Limit – Process Sources

MH-14 Particulate Weight Emission Limits – Process Sources MH-15 Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ____No

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control devices associated with this emission unit:	
15vb, 16vb, 17vb	15vb, 16vb, 17vb	Full Enclosure to F	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Solid Waste Processing Lime Silo Loading Pneumatic Conveyors (3), each fully enclosed and with a 25 ton/hour capacity, from lime hauling trucks to the SW Lime silos, with each SW Lime silo dust collector controlling these emissions.			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1994	Modification date(s	s):
Design Capacity (examples: furnace 25 tons/hour (each)	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput 25 tons/hour (each)	Maximum Annual Throughput: 115,623 tons/year	Maximum Operation 2,920 hours	ng Schedule:
Fuel Usage Data (fill out all applicat	ole fields)		
Does this emission unit combust fuel	!?Yes _ <u>X</u> No	If yes, is it?	
Indirect FiredDirec		Direct Fired	
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners:			
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.00	0.00
Particulate Matter (PM ₁₀)	0.00	0.00
Total Particulate Matter (TSP)	0.00	0.00
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potenti	ial Emissions
	PPH	TPY
Regulated Pollutants other than	Potenti	ial Emissions
Criteria and HAP	PPH	TPY
List the method(s) used to calculate the	potential emissions (include dat	tes of any stack tests conducted,
versions of software used, source and da	ntes of emission factors, etc.).	
Emissions for these fully enclosed sou	rces are contained within the S	SWP Lime Silos dust collectors 15c-
17c.		

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits
MH-10	Limit on Annual Input to Lime Handling System
MH-11	Operating Hours Limit on Lime Unloading Operations
MH-12	Opacity Limit – Process Sources
MH-14	Particulate Weight Emission Limits – Process Sources
MH-15	Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? X Yes No

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number:	Emission unit name: 33	List any control dewith this emission u	ınit:	
		Dust Collector 15c		
Provide a description of the emission Solid Waste Processing Lime Silo the solid waste processing cycle.				
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1994	Modification date(s	;):	
Design Capacity (examples: furnace 388 tons	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput n/a	Maximum Annual Throughput: 38,541 tons/year	Maximum Operation 8,760 hours	ng Schedule:	
Fuel Usage Data (fill out all applical	ole fields)			
Does this emission unit combust fuel?Yes _X No If yes, is it?				
		Indirect Fired	Direct Fired	
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners:			ting of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.				
Describe each fuel expected to be used during the term of the permit.				
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

V.'(' . D . 11 . ((.		
Criteria Pollutants	Poten	ntial Emissions
	РРН	TPY
Carbon Monoxide (CO)		
Vitrogen Oxides (NO _X)		
ead (Pb)		
Particulate Matter (PM _{2.5})	0.07	0.30
articulate Matter (PM ₁₀)	0.07	0.30
otal Particulate Matter (TSP)	0.07	0.30
ulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	РРН	TPY
ist the method(s) used to calculate the po	ntential emissions (include de	ates of any stack tests conducted
ersions of software used, source and date		ares of any stack tests conducted,
missions based upon emissions from c	lust collector 15c with outle	t grain loading of 0.003 gr/cf, and

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits
MH-11	Operating Hours Limit on Lime Unloading Operations
MH-12	Opacity Limit – Process Sources
MH-13	Visible Emissions Limit – Storage Structures
MH-14	Particulate Weight Emission Limits – Process Sources
MH-15	Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? X Yes No

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number:	Emission unit name:	List any control devices associate with this emission unit:		
34	34	Dust Collector 16c		
Provide a description of the emission Solid Waste Processing Lime Silo the solid waste processing cycle.				
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1994	Modification date(s	s):	
Design Capacity (examples: furnace 388 tons	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput N/A	Maximum Annual Throughput: 38,541 tons/year	Maximum Operating Schedule: 8,760 hours		
Fuel Usage Data (fill out all applicat	ole fields)			
Does this emission unit combust fuel?Yes _X_ No If yes, is it?				
		Indirect Fired	Direct Fired	
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners:			ting of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.				
Describe each fuel expected to be used during the term of the permit.				
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	
		1		

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.07	0.30
Particulate Matter (PM ₁₀)	0.07	0.30
Total Particulate Matter (TSP)	0.07	0.30
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potent	tial Emissions
	PPH	TPY
Regulated Pollutants other than	Potent	tial Emissions
Criteria and HAP	РРН	TPY
List the method(s) used to calculate the versions of software used, source and o		tes of any stack tests conducted,
Emissions based upon emissions fro	m dust collector 16c with outlet	grain loading of 0.003 gr/cf, and
2,700 cfm.		

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits
MH-11	Operating Hours Limit on Lime Unloading Operations
MH-12	Opacity Limit – Process Sources
MH-13	Visible Emissions Limit – Storage Structures
MH-14	Particulate Weight Emission Limits – Process Sources
MH-15	Process Fugitive Particulate Control Requirement

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? X Yes No

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number:	Emission unit name:	List any control devices associa		
35	35	with this emission u Dust Collector 17c	MIL:	
		Duot Collector 170		
Provide a description of the emission Solid Waste Processing Lime Silo the solid waste processing cycle.	, , , , , , , , , , , , , , , , , , , ,	~ ·	*	
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1994	Modification date(s):		
Design Capacity (examples: furnace 388 tons	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput N/A	Maximum Annual Throughput: 38,541 tons/year	Maximum Operatin 8,760 hours	ng Schedule:	
Fuel Usage Data (fill out all applicat	ole fields)			
Does this emission unit combust fuel	?Yes _ <u>X</u> No	If yes, is it?		
		Indirect Fired	Direct Fired	
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners			ting of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.				
Describe each fuel expected to be used during the term of the permit.				
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.07	0.30
Particulate Matter (PM ₁₀)	0.07	0.30
Total Particulate Matter (TSP)	0.07	0.30
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential	l Emissions
	PPH	TPY
Regulated Pollutants other than	Potential	Emissions
Criteria and HAP	РРН	TPY
List the method(s) used to calculate t	he notential emissions (include date	s of any stack tests conducted
versions of software used, source and		s of any stack tests conducted,
Emissions based upon emissions fr	om dust collector 17c with outlet gr	rain loading of 0.003 gr/cf, and
2,700 cfm.	·	

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits
MH-11	Operating Hours Limit on Lime Unloading Operations
MH-12	Opacity Limit – Process Sources
MH-13	Visible Emissions Limit – Storage Structures
MH-14	Particulate Weight Emission Limits – Process Sources
MH-15	Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? X Yes No

Materials Handling Emissions Units Completed "Attachment E" Forms

Part VI - Fly Ash Handling Circuit

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number:	Emission unit name:	List any control devices associated with this emission unit:		
18va, 19va, 20va	18va, 19va, 20va	Full Enclosure to F	abric Filter	
Provide a description of the emission Solid Waste Processing Lime Silo ton/hour capacity, from the Fly Ash collector controlling these emission	Loading Pneumatic Conveyors (3) Storage Silos to the SW Fly Ash s	, each fully enclosed	and with a 120	
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1994	Modification date(s	s):	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 120 tons/hour (each)				
Maximum Hourly Throughput 120 tons/hour (each)	Maximum Annual Throughput: 818,739 tons/year	Maximum Operation 8,760 hours	ng Schedule:	
Fuel Usage Data (fill out all applicate	ole fields)			
Does this emission unit combust fuel	?Yes _ <u>X</u> No	If yes, is it?		
		Indirect Fired	Direct Fired	
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners			ting of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.				
Describe each fuel expected to be used during the term of the permit.				
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Potential Emissions	
ducted,	
aucteu,	
collectors 18c	

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits

MH-12 Opacity Limit – Process Sources

MH-14 Particulate Weight Emission Limits – Process Sources MH-15 Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ____No

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control devices associa with this emission unit:	
18vb, 19vb, 20vb	18vb, 19vb, 20vb	Dust Collector 18c	, 19c, 20c
Provide a description of the emission Solid Waste Processing Lime Silo ton/hour capacity, from the Fly Ash dust collector controlling these emi	Loading Pneumatic Conveyors (3), Hauling trucks to the SW Fly Ash	, each fully enclosed	and with a 120
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1994	Modification date(s	s):
Design Capacity (examples: furnace 120 tons/hour (each)	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput 120 tons/hour (each)	Maximum Annual Throughput: 818,739 tons/year	Maximum Operation 8,760 hours	ng Schedule:
Fuel Usage Data (fill out all applicate	ole fields)		
Does this emission unit combust fuel	?Yes _ <u>X</u> No	If yes, is it?	
Indirect Fired _		Direct Fired	
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of		ting of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
	İ	I	İ

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.00	0.00
Particulate Matter (PM ₁₀)	0.00	0.00
Total Particulate Matter (TSP)	0.00	0.00
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	РРН	TPY
Regulated Pollutants other than	Potent	ial Emissions
Criteria and HAP	РРН	TPY
List the method(s) used to calculate the po	otential emissions (include da	tes of any stack tests conducted.
versions of software used, source and date		
Emissions for these fully enclosed source	es contained within the dust	t collector emissions of collectors 18c
20c.		

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements	
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MH-9 Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits

MH-12 Opacity Limit – Process Sources

MH-14 Particulate Weight Emission Limits – Process Sources MH-15 Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ____No

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control dev	
21	21	with this emission under the Dust Collector 18c	
		Dust Collector Too	
Provide a description of the emission Solid Waste Processing Fly Ash Si through the solid waste processing	lo (1 of 3), with a 10,479 ton capac		
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1994	Modification date(s):	
Design Capacity (examples: furnace 10,479 tons	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput N/A	Maximum Annual Throughput: 272,913 tons/year	Maximum Operating Schedule: 8,760 hours	
Fuel Usage Data (fill out all applicat	ole fields)		
Does this emission unit combust fuel	!?Yes _ <u>X</u> No	If yes, is it?	
		Indirect Fired	Direct Fired
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
		1	

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.16	0.70
Particulate Matter (PM ₁₀)	0.16	0.70
Total Particulate Matter (TSP)	0.16	0.70
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potentia	al Emissions
	РРН	TPY
Regulated Pollutants other than	Potentia	al Emissions
Criteria and HAP	РРН	TPY
List the method(s) used to calculate the p		es of any stack tests conducted,
versions of software used, source and dat	es of emission factors, etc.).	
Emissions based upon dust collectors 1	8c with outlet grain loading of	f 0.003 gr/cf, and 6,400 cfm rating.

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits
MH-12	Opacity Limit – Process Sources
MH-13	Visible Emissions Limit – Storage Structures
MH-14	Particulate Weight Emission Limits – Process Sources
MH-15	Process Fugitive Particulate Control Requirement
1	- · · · · · · · · · · · · · · · · · · ·

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? X Yes No

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control devices associated	
22	22	with this emission u	init:
		Dust Collector 19c	
Provide a description of the emission Solid Waste Processing Fly Ash Si through the solid waste processing	lo (1 of 3), with a 10,479 ton capac		
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1994	Modification date(s):
Design Capacity (examples: furnace 10,479 tons	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput N/A	Maximum Annual Throughput: 272,913 tons/year	Maximum Operating Schedule: 8,760 hours	
Fuel Usage Data (fill out all applicat	ole fields)	l	
Does this emission unit combust fuel	?Yes _ <u>X</u> No	If yes, is it?	
		Indirect Fired	Direct Fired
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.16	0.70
Particulate Matter (PM ₁₀)	0.16	0.70
Total Particulate Matter (TSP)	0.16	0.70
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potenti	ial Emissions
	РРН	TPY
Regulated Pollutants other than	Potenti	ial Emissions
Criteria and HAP	PPH	TPY
List the method(s) used to calculate the p		tes of any stack tests conducted,
versions of software used, source and dat	es of emission factors, etc.).	
Emissions based upon dust collectors 1	9c with outlet grain loading o	f 0.003 gr/cf, and 6,400 cfm rating.

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits
MH-12	Opacity Limit – Process Sources
MH-13	Visible Emissions Limit – Storage Structures
MH-14	Particulate Weight Emission Limits – Process Sources
MH-15	Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? X Yes No

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control dew	
23	23	Dust Collector 20c	
Provide a description of the emission Solid Waste Processing Fly Ash Si through the solid waste processing	lo (1 of 3), with a 10,479-ton capac		
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1994	Modification date(s):	
Design Capacity (examples: furnace 10,479 tons	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput N/A	Maximum Annual Throughput: 272,913 tons/year	Maximum Operating Schedule: 8,760 hours	
Fuel Usage Data (fill out all applical	ole fields)	1	
Does this emission unit combust fuel	?Yes _ <u>X</u> No	If yes, is it?	
		Indirect Fired	Direct Fired
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fue). For each fuel type	listed, provide
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
		1	

Emissions Data			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO _X)			
Lead (Pb)			
Particulate Matter (PM _{2.5})	0.16	0.70	
Particulate Matter (PM ₁₀)	0.16	0.70	
Total Particulate Matter (TSP)	0.16	0.70	
Sulfur Dioxide (SO ₂)			
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potenti	ial Emissions	
	РРН	TPY	
Regulated Pollutants other than	Potenti	ial Emissions	
Criteria and HAP	РРН	TPY	
List the method(s) used to calculate the poversions of software used, source and date		tes of any stack tests conducted,	
Emissions based upon dust collectors 2		of 0 003 gr/cf, and 6 400 cfm rating	
	oo mar outlot gram loading o	r oroco gron, and o, roo on raung.	

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits
MH-12	Opacity Limit – Process Sources
MH-13	Visible Emissions Limit – Storage Structures
MH-14	Particulate Weight Emission Limits – Process Sources
MH-15	Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? X Yes No

Materials Handling Emissions Units Completed "Attachment E" Forms

Part VII - Solid Waste Handling Circuit

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number:	Emission unit name:	List any control dev		
21va, 22va, 23va	21va, 22va, 23va	Full Enclosure to S		
Provide a description of the emission Solid Waste Processing Fly Ash So Ash Storage Silos to the Lime/Fly A process venting through pug mill w	crew Conveyors (3), each with a 70 Ash Screw Conveyors. Each conve	ton/hour capacity, f	rom the SW Fly	
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1994	Modification date(s):	
Design Capacity (examples: furnace 70 tons/hour (each)	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput 70 tons/hour (each)	Maximum Annual Throughput: 613,200 tons/year (each)	Maximum Operating Schedule: 8,760 hours		
Fuel Usage Data (fill out all applicab	ole fields)	L		
Does this emission unit combust fuel	?Yes _ <u>X</u> No	If yes, is it?		
		Indirect Fired	Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:	
List the primary fuel type(s) and if a the maximum hourly and annual fue). For each fuel type	listed, provide	
Describe each fuel expected to be use	ed during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Emissions Data			
Criteria Pollutants	Potential Emissions		
	РРН	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO _X)			
Lead (Pb)			
Particulate Matter (PM _{2.5})	0.00	0.00	
Particulate Matter (PM ₁₀)	0.00	0.00	
Total Particulate Matter (TSP)	0.00	0.00	
Sulfur Dioxide (SO ₂)			
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potentia	l Emissions	
	РРН	TPY	
Regulated Pollutants other than	Potentia	1 Emissions	
Criteria and HAP	РРН	TPY	
List the method(s) used to calculate the po		es of any stack tests conducted,	
versions of software used, source and date			
Emissions for these fully enclosed source	es are included in the Pug Mi	lls, controlled by scrubbers 21-23c.	

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	i nrougnput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits

MH-12 Opacity Limit – Process Sources

MH-14 Particulate Weight Emission Limits – Process Sources MH-15 Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ____No

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: 21vb, 22vb, 23vb	Emission unit name:	List any control devices associated with this emission unit:		
2100, 2200, 2300	21vb, 22vb, 23vb	Full Enclosure to S	Scrubber	
Provide a description of the emission Solid Waste Processing Lime Scre Storage Silos to the Lime/Fly Ash S venting through pug mill wet scrubb	w Conveyors (3), each with a 10 to Screw Conveyors. Each conveyor i	on/hour capacity, from	m the SW Lime	
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1994	Modification date(s):	
Design Capacity (examples: furnace 10 tons/hour (each)	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput 10 tons/hour (each)	Maximum Annual Throughput: 87,600 tons/year (each)	Maximum Operating Schedule: 8,760 hours		
Fuel Usage Data (fill out all applicate	ole fields)			
Does this emission unit combust fuel	?Yes _ <u>X</u> No	If yes, is it?		
		Indirect Fired	Direct Fired	
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:	
List the primary fuel type(s) and if a the maximum hourly and annual fue). For each fuel type	listed, provide	
Describe each fuel expected to be use	ed during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Emissions Data			
Criteria Pollutants	Potential Emissions		
	РРН	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO _X)			
Lead (Pb)			
Particulate Matter (PM _{2.5})	0.00	0.00	
Particulate Matter (PM ₁₀)	0.00	0.00	
Total Particulate Matter (TSP)	0.00	0.00	
Sulfur Dioxide (SO ₂)			
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potentia	1 Emissions	
	РРН	TPY	
Regulated Pollutants other than	Potentia	1 Emissions	
Criteria and HAP	РРН	TPY	
List the method(s) used to calculate the po	otential emissions (include date	s of any stack tests conducted,	
versions of software used, source and date			
Emissions for these fully enclosed source	es are included in the Pug Mi	lls, controlled by scrubbers 21-23c.	

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements
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MH-9 Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits

MH-12 Opacity Limit – Process Sources

MH-14 Particulate Weight Emission Limits – Process Sources MH-15 Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ____No

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number:	Emission unit name:	List any control devices associated with this emission unit:		
21vc, 22vc, 23vc	21vc, 22vc, 23vc	Full Enclosure to S	Scrubber	
Provide a description of the emission Solid Waste Processing Lime/Fly A Lime (21-23va) and Fly Ash (21-23 Each conveyor is fully enclosed, wi	ash Screw Conveyors (3), each wit (vb) Screw Conveyors to the Lime/	h a 80 ton/hour capa Fly Ash Screw Conv	acity, from the eyors (21-23vd).	
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1994	Modification date(s	s):	
Design Capacity (examples: furnace 80 tons/hour (each)	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput 80 tons/hour (each)	Maximum Annual Throughput: 700,800 tons/year (each)	Maximum Operating Schedule: 8,760 hours		
Fuel Usage Data (fill out all applicat	ole fields)			
Does this emission unit combust fuel	?Yes _ <u>X</u> No	If yes, is it?		
		Indirect Fired	Direct Fired	
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners:				
List the primary fuel type(s) and if a the maximum hourly and annual fue). For each fuel type	listed, provide	
Describe each fuel expected to be use	ed during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.00	0.00
Particulate Matter (PM ₁₀)	0.00	0.00
Total Particulate Matter (TSP)	0.00	0.00
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potentia	al Emissions
	РРН	TPY
Regulated Pollutants other than	Potentia	al Emissions
Criteria and HAP	РРН	TPY
List the method(s) used to calculate the poversions of software used, source and date		es of any stack tests conducted,
Emissions for these fully enclosed source	es are included in the Pug Mi	ills, controlled by scrubbers 21-23c.

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements

MH-9 Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits

MH-12 Opacity Limit – Process Sources

MH-14 Particulate Weight Emission Limits – Process Sources MH-15 Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ____No

ATTACHMENT E - Emission Unit Form					
Emission Unit Description					
Emission unit ID number:	Emission unit name:	List any control dev			
21vd, 22vd, 23vd	21vd, 22vd, 23vd	Full Enclosure to S	Scrubber		
Solid Waste Processing Lime/Fly A Lime/Fly Ash Screw Conveyors (2:	Provide a description of the emission unit (type, method of operation, design parameters, etc.): Solid Waste Processing Lime/Fly Ash Screw Conveyors (3), each with a 80 ton/hour capacity, from the Lime/Fly Ash Screw Conveyors (21-23vc) to the SW processing Pug Mills (21-23s). Each conveyor is fully enclosed, with the process venting through pug mill wet scrubbers 21-23c.				
Manufacturer: N/A	Model number: N/A	Serial number: N/A			
Construction date:	Installation date: 1994	Modification date(s	s):		
Design Capacity (examples: furnace 80 tons/hour (each)	s - tons/hr, tanks - gallons):				
Maximum Hourly Throughput 80 tons/hour (each)	Maximum Annual Throughput: 700,800 tons/year (each)	Maximum Operating Schedule: 8,760 hours			
Fuel Usage Data (fill out all applical	ole fields)				
Does this emission unit combust fuel?Yes _X No If yes, is it?					
		Indirect Fired	Direct Fired		
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:		
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.					
Describe each fuel expected to be used during the term of the permit.					
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value		
			. 3200		

Emissions Data			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO _X)			
Lead (Pb)			
Particulate Matter (PM _{2.5})	0.00	0.00	
Particulate Matter (PM ₁₀)	0.00	0.00	
Total Particulate Matter (TSP)	0.00	0.00	
Sulfur Dioxide (SO ₂)			
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Pote	ential Emissions	
	PPH	TPY	
Regulated Pollutants other than	Pote	ential Emissions	
Criteria and HAP	PPH	TPY	
List the method(s) used to calculate the p			
versions of software used, source and dat	es of emission factors, etc.).		
Emissions for these fully enclosed source	ces are included in the Pug	Mills, controlled by scrubbers 21-23c.	

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements

MH-9 Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits

MH-12 Opacity Limit – Process Sources

MH-14 Particulate Weight Emission Limits – Process Sources MH-15 Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ____No

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number:	Emission unit name:	List any control de		
37v, 38v	37v, 38v	with this emission unit: Full Enclosure to Scrubbers		
		T dii Enologara ta c		
Provide a description of the emission Centrifuge Cake Screw Conveyors processing Pug Mills (21-23s). Eac wet scrubbers 21-23c.	(2), each with a 150 ton/hour capa	acity, from the Centri	ifuges to the SW	
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1994	Modification date(s	s):	
Design Capacity (examples: furnace 150 tons/hour (each)	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput 150 tons/hour (each)	Maximum Annual Throughput: 1,314,000 tons/year (each)	Maximum Operation 8,760 hours	ng Schedule:	
Fuel Usage Data (fill out all applicat	ole fields)			
Does this emission unit combust fuel	?Yes _ <u>X</u> No	If yes, is it?		
		Indirect Fired	Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.				
Describe each fuel expected to be used during the term of the permit.				
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Emissions Data			
Criteria Pollutants	Potential Emissions		
	РРН	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO _X)			
Lead (Pb)			
Particulate Matter (PM _{2.5})	0.00	0.00	
Particulate Matter (PM ₁₀)	0.00	0.00	
Total Particulate Matter (TSP)	0.00	0.00	
Sulfur Dioxide (SO ₂)			
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potenti	al Emissions	
	РРН	TPY	
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP	РРН	TPY	
List the method(s) used to calculate the		tes of any stack tests conducted,	
versions of software used, source and d	ates of emission factors, etc.).		
Emissions for these fully enclosed so	urces are included in the Pug M	fills, controlled by scrubbers 21-23c.	

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements

MH-9 Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits

MH-12 Opacity Limit – Process Sources

MH-14 Particulate Weight Emission Limits – Process Sources
MH-15 Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ____No

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number:	Emission unit name:	List any control devices associated with this emission unit:		
21s	21s	Wet Scrubbers 210	;	
Provide a description of the emission Solid Waste Processing Pug Mill (1 emissions control.				
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1994	Modification date(s):		
Design Capacity (examples: furnace 600 tons/hour (each)	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput 600 tons/hour (each)	Maximum Annual Throughput: 3,303,474 tons/year (each)	Maximum Operating Schedule: 8,760 hours		
Fuel Usage Data (fill out all applicat	ole fields)			
Does this emission unit combust fuel	?Yes _ <u>X</u> No	If yes, is it?		
		Indirect Fired	Direct Fired	
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of the state		ting of burners:		
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.				
Describe each fuel expected to be used during the term of the permit.				
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Emissions Data			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO _X)			
Lead (Pb)			
Particulate Matter (PM _{2.5})	0.51	2.25	
Particulate Matter (PM ₁₀)	0.51	2.25	
Total Particulate Matter (TSP)	0.51	2.25	
Sulfur Dioxide (SO ₂)			
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potent	tial Emissions	
	РРН	TPY	
Regulated Pollutants other than	Potent	tial Emissions	
Criteria and HAP	PPH	TPY	
List the method(s) used to calculate the p		tes of any stack tests conducted,	
versions of software used, source and dat	es of emission factors, etc.).		
Emissions based upon wet scrubber 21	c with outlet grain loading of	0.03 gr/cf, and 2,000 cfm rating.	

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	i nrougnput Limits and Control Equipment Requirements
MH-9	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits
MH-12	Opacity Limit – Process Sources

MH-14 Particulate Weight Emission Limits – Process Sources
MH-15 Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ____No

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number:	Emission unit name:	List any control devices associated with this emission unit:		
22s	22s	Wet Scrubbers 220		
Provide a description of the emission Solid Waste Processing Pug Mill (1 emissions control.				
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date:	Installation date: 1994	Modification date(s	s):	
Design Capacity (examples: furnace 600 tons/hour (each)	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput 600 tons/hour (each)	Maximum Annual Throughput: 3,303,474 tons/year (each)	Maximum Operating Schedule: 8,760 hours		
Fuel Usage Data (fill out all applical	ole fields)			
Does this emission unit combust fuel?Yes _X No If yes, is it?				
		Indirect Fired	Direct Fired	
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burne			ting of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.				
Describe each fuel expected to be used during the term of the permit.				
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Emissions Data		
Criteria Pollutants	Potentia	al Emissions
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.51	2.25
Particulate Matter (PM ₁₀)	0.51	2.25
Total Particulate Matter (TSP)	0.51	2.25
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potentia	al Emissions
	РРН	TPY
Regulated Pollutants other than	Potentia	al Emissions
Criteria and HAP	РРН	TPY
List the method(s) used to calculate the p	otential emissions (include dat	es of any stack tests conducted,
versions of software used, source and dat	tes of emission factors, etc.).	
Emissions based upon wet scrubber 22	c with outlet grain loading of 0	0.03 gr/cf, and 2,000 cfm rating.

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8	Throughput Limits and Control Equipment Requirements

MH-9 Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits

MH-12 Opacity Limit – Process Sources

MH-14 Particulate Weight Emission Limits – Process Sources
MH-15 Process Fugitive Particulate Control Requirement

_X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ____No

ATT	ACHMENT E - Emission Uni	t Form	
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control dev	
23s	23s	Wet Scrubbers 230	
Provide a description of the emission Solid Waste Processing Pug Mill (1 emissions control.			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1994	Modification date(s):
Design Capacity (examples: furnace 600 tons/hour (each)	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput 600 tons/hour (each)	Maximum Annual Throughput: 3,303,474 tons/year (each)	Maximum Operating Schedule: 8,760 hours	
Fuel Usage Data (fill out all applicat	ole fields)		
Does this emission unit combust fuel	it combust fuel?Yes _X No If yes, is it?		
		Indirect FiredDirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fu). For each fuel type	listed, provide
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
		į l	

Emissions Data		
Criteria Pollutants	Potentia	1 Emissions
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.51	2.25
Particulate Matter (PM ₁₀)	0.51	2.25
Total Particulate Matter (TSP)	0.51	2.25
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potentia	1 Emissions
	PPH	TPY
Regulated Pollutants other than	Potentia	1 Emissions
Criteria and HAP	PPH	TPY
List the method(s) used to calculate t		s of any stack tests conducted,
versions of software used, source and	dates of emission factors, etc.).	
Emissions based upon wet scrubbe	r 23c with outlet grain loading of 0	.03 gr/cf, and 2,000 cfm rating.

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Materials Handling ("MH") emissions unit-specific applicable requirements are listed below as references to an Appendix containing the actual requirements text. Each applicable requirement below is linked by a reference number (e.g. "MH-1") to detailed information for that requirement contained in Table MH-AR. Each requirement in Table MH-AR then references appropriate Materials Handling Testing/Recordkeeping/Reporting ("MHTRR") requirements in Table MH-TRR.

Applicable requirement codes below are actively hyperlinked to Table MH-AR. The actual requirement text may be seen by ctrl-clicking on the links below. Links are numbered sequentially per the following conventions: C=combustion emissions units, MH = materials handling emissions units, MI = miscellaneous emissions units.

MH-8 Throughput Limits and Control Equipment Requirements

MH-9 Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits

MH-12 Opacity Limit – Process Sources

MH-14 Particulate Weight Emission Limits – Process Sources
MH-15 Process Fugitive Particulate Control Requirement

X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring / Testing / Recordkeeping / Reporting requirements are provided for this emissions unit in Table MH-TRR and are associated with the Applicable Requirements for this emissions unit within Table MH-AR.

MHTRR-1 Method of Calculation

MHTRR-3 Test Methods for PM Emissions

MHTRR-7 Throughput and Bulldozing Recordkeeping Requirements

MHTRR-8 Emission Inspection

Are you in compliance with all applicable requirements for this emission unit? _X_Yes ____No

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: UR-1	Emission unit name: UR-1 List any control device with this emission unit		
		Dust Collectors 280	c, 29c, 30c, 31c
Provide a description of the emission Four (4) Urea Storage Silos (each			
Manufacturer:	Model number:	Serial number:	
Construction date: 1994	Installation date: 1994	Modification date(s)):
Design Capacity (examples: furnace 9,000 cubic feet.	s - tons/hr, tanks - gallons):		
Maximum Hourly Throughput: 25 tons urea	Maximum Annual Throughput: 219,000 tons urea	Maximum Operatin 8,760 hours	ng Schedule:
Fuel Usage Data (fill out all applical	ole fields)	,	
Does this emission unit combust fue	!?Yes _ <u>X</u> No	If yes, is it?	
Indirect FiredDirect Fired			Direct Fired
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if a the maximum hourly and annual fu). For each fuel type	listed, provide
Describe each fuel expected to be us	ed during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potent	ial Emissions
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.22	0.98
Particulate Matter (PM ₁₀)	0.22	0.98
Total Particulate Matter (TSP)	0.22	0.98
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potent	ial Emissions
	РРН	TPY
Regulated Pollutants other than	Potent	ial Emissions
Criteria and HAP	РРН	TPY
List the method(s) used to calculate the versions of software used, source and		tes of any stack tests conducted,
	collectors, each with outlet grain	n loading of 0.01 gr/cf, flow rate of 655
cfm, and 8760 hours of operation.		

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
The control of the co
There are no emissions unit-specific requirements for UR-1
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating
compliance. If there is not already a required method in place, then a method must be proposed.)
· _ · •
compliance. If there is not already a required method in place, then a method must be proposed.)
compliance. If there is not already a required method in place, then a method must be proposed.)
compliance. If there is not already a required method in place, then a method must be proposed.)
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compliance. If there is not already a required method in place, then a method must be proposed.)
compliance. If there is not already a required method in place, then a method must be proposed.)
compliance. If there is not already a required method in place, then a method must be proposed.) There are no emissions unit-specific testing, recordkeeping, reporting requirements for UR-1
compliance. If there is not already a required method in place, then a method must be proposed.) There are no emissions unit-specific testing, recordkeeping, reporting requirements for UR-1

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: UR-2	Emission unit name: UR-2	ion unit name: List any control devices asso with this emission unit:		
UK-2	UN-2	Dust Collectors 32	c, 33c	
Provide a description of the emission Two (2) Urea Hoppers (handling 16				
Manufacturer:	Model number:	Serial number:		
Construction date: 1994	Installation date: 1994	Modification date(s):	
Design Capacity (examples: furnace 9,000 cubic feet.	s - tons/hr, tanks - gallons):	1		
Maximum Hourly Throughput: 16 tons urea (each)	Maximum Annual Throughput: 140,160 tons urea (each)	Maximum Operating Schedule: 8,760 hours		
Fuel Usage Data (fill out all applicat	ole fields)			
Does this emission unit combust fuel	Yes <u>X</u> No	If yes, is it?		
		Indirect Fired	Indirect FiredDirect Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:	
List the primary fuel type(s) and if a the maximum hourly and annual fue		s). For each fuel type	listed, provide	
Describe each fuel expected to be us	ed during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Potent	ial Emissions	
PPH	Potential Emissions	
1111	TPY	
0.11	0.49	
0.11	0.49	
0.11	0.49	
Potent	ial Emissions	
PPH	TPY	
Potent	ial Emissions	
PPH	TPY	
	tes of any stack tests conducted,	
ctors, each with outlet grain	n loading of 0.01 gr/cf, flow rate of 655	
•	O.11 Potent PPH Potent PPH tential emissions (include dass of emission factors, etc.).	

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are an emission with an emit are with a soliton and for LID 0
There are no emissions unit-specific requirements for UR-2
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
There are no emissions unit are efficient asserting asse
There are no emissions unit-specific testing, recordkeeping, reporting requirements for UR-2
There are no emissions unit-specific testing, recordkeeping, reporting requirements for OR-2
There are no emissions unit-specific testing, recordkeeping, reporting requirements for OR-2
There are no emissions unit-specific testing, recordkeeping, reporting requirements for UR-2
There are no emissions unit-specific testing, recordkeeping, reporting requirements for UR-2
There are no emissions unit-specific testing, recordkeeping, reporting requirements for OR-2
There are no emissions unit-specific testing, recorakeeping, reporting requirements for OR-2
There are no emissions unit-specific testing, recordkeeping, reporting requirements for OR-2
There are no emissions unit-specific testing, recordkeeping, reporting requirements for OR-2
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo

Materials Handling Emissions Units Completed "Attachment E" Forms

REFERENCED TABLES

T - I-				A -
Tab	ıe	MF	1-8	A:

Maximum Capacities and Required Control Devices for Lime Handling Equipment

Table MH-9A:

Outlet Grain Loading and Maximum Air Flow Requirements for Control Devices

Table MH-AR:

Source-Specific Applicable Requirements for Material Handling Sources – Harrison Power Station

Table MH-TRR

MHTRR. Materials Handling Sources – Harrison Power Station – Emissions Unit Testing, Recordkeeping and Reporting Requirements

Table MH-8A Maximum Capacities and Required Control Devices for SO₂ Absorber-Related Process Equipment

Equipment ID	Description	Maximum Capacity (tons/hour)	Maximum Capacity (tons/year)	Control Device ¹					
	Lime Unloading Circuit								
LRCH	Railcar Unloading Transfer Hoppers	380	627,546	BH					
6si	Lime Unloading Conveyer Belt	450	627,546	BH					
6sj	Lime Unloading Conveyer Belt	450	627,546	BH					
8sa	Lime Transfer Conveyer and Associated Dribble Conveyer	450	627,546	ВН					
8sb	Lime Transfer Conveyer and Associated Dribble Conveyer	450	627,546	ВН					
8sg	Lime Storage Conveyer and Associated Dribble Conveyer	900	627,546	BH					
8sh	Lime Storage Conveyer and Associated Dribble Conveyer	900	627,546	BH					
13	Lime Storage Silo (101,788 ton)	n/a	313,773	BH					
14	Lime Storage Silo (101,788 ton)	n/a	313,773	BH					
	Emergency Lim	e Storage Circ	cuit	•					
11va	Emergency Lime Bin Pneumatic Delivery Conveyer	75	n/a	BH					
12va	Emergency Lime Bin Pneumatic Delivery Conveyer	75	n/a	BH					
37	Emergency Lime Bin (150 ton)	n/a	n/a	BH					
38	Emergency Lime Bin (150 ton)	n/a	n/a	BH					
9va	Lime Storage Silo Pneumatic Delivery Conveyer	n/a	n/a	ВН					
10va	Lime Storage Silo Pneumatic Delivery Conveyer	n/a	n/a	ВН					
	Lime Slurry H	andling Circu	it						
24v,25v	Ball-Mill Slaker Delivery	30	262,800	FE,SCR					
26v,27v	Screw Conveyers	(each)	(each)						
24s,25s	Ball-Mill Slakers	30	262,800	SCR					
26s,27s	Limo Clurry Transfer Tanks	(each)	(each)	N/D					
46,47, 48,49	Lime Slurry Transfer Tanks	n/a	712,970	N/R					
43,44,45	(108,600 gal each) Lime Slurry Storage Tanks	n/a	(gl each) 950,627	N/R					
43,44,43	(380,000 gal each)		(gl each)	IN/IX					
40.47	Absorber Sludge			N/S					
16,17, 18,19	Thickener Underflow Tanks (7,253 tons each)	n/a	1,428,305 (each)	N/R					
46		dling Circuit	445.000	D					
13v	Lime Conveyor to Crusher	25	115,623	BH					
14v	Lime Conveyor to Crusher	25	115,623	BH					
13s	Lime Crusher	25	115,623	BH					
14s	Lime Crusher	25	115,623	BH					

 $^{^{\}rm 1}$ Codes: BH=Baghouse; FE=Full Enclosure; SCR=Wet Scrubber, N/R=None Required Monongahela Power Company Emission Unit Form (e

Equipment ID	Description	Maximum Capacity (tons/hour)	Maximum Capacity (tons/year)	Control Device ¹
15va	Solid Waste Processing Lime Silos (SWPLS) Loading Pneumatic Conveyer	25	115,623	FE,BH
16va	(SWPLS) Loading Pneumatic Conveyer	25	115,623	FE,BH
17va	(SWPLS) Loading Pneumatic Conveyer	25	115,623	FE,BH
15vb	(SWPLS) Loading Pneumatic Conveyer from Truck	25	115,623	FE,BH
16vb	(SWPLS) Loading Pneumatic Conveyer from Truck	25	115,623	FE,BH
17vb	(SWPLS) Loading Pneumatic Conveyer from Truck	25	115,623	FE,BH
33	Solid Waste Processing Lime Silos (388 tons each)	n/a	38,541 (each)	ВН
34	Solid Waste Processing Lime Silos (388 tons each)	n/a	38,541 (each)	ВН
35	Solid Waste Processing Lime Silos (388 tons each)	n/a	38,541 (each)	ВН
		ndling Circuit		
18va	Solid Waste Processing Fly Ash Silos (SWPFAS) Loading Pneumatic Conveyer	120	818,739	FE,BH
19va	(SWPFAS) Loading Pneumatic Conveyer	120	818,739	FE,BH
20va	(SWPFAS) Loading Pneumatic Conveyer	120	818,739	FE,BH
18vb	(SWPFAS) Loading Pneumatic Conveyer from Truck	120	818,739	FE,BH
19vb	(SWPFAS) Loading Pneumatic Conveyer from Truck	120	818,739	FE,BH
20vb	(SWPFAS) Loading Pneumatic Conveyer from Truck	120	818,739	FE,BH
21	Solid Waste Processing Fly Ash Silos (10,479 tons each)	n/a	272,913 (each)	ВН
22	Solid Waste Processing Fly Ash Silos (10,479 tons each)	n/a	272,913 (each)	BH
23	Solid Waste Processing Fly Ash Silos (10,479 tons each)	n/a	272,913 (each)	ВН

Equipment ID	Description	Maximum Capacity (tons/hour)	Maximum Capacity (tons/year)	Control Device ¹
	Solid Waste	Handling Circu	it	
21va, 22va, 23va	Fly Ash Screw Conveyers	70 (each)	613,200 (each)	FE,SCR
21vb, 22vb, 23vb	Lime Screw Conveyers	10 (each)	87,600 (each)	FE,SCR
21vc, 22vc, 23vc	Lime/Fly Ash Screw Conveyers	80 (each)	700,800 (each)	FE,SCR
21vd, 22vd, 23vd	Lime/Fly Ash Screw Conveyers	80 (each)	700,800 (each)	FE,SCR
37v,38v	Centrifuge Cake Screw Conveyers	150 (each)	1,314,000 (each)	FE,SCR
21s,22s, 23s	Solid Waste Processing (SWP) Pug Mills	600 (each)	3,303,474 (each)	SCR
31v,32v, 33v	Stabilized Sludge Screw Conveyers	600 (each)	3,303,474 (each)	FE,SCR
34v,35v, 36v	Emergency Radial Stacking Conveyers	265	n/a	N/R

Table MH-9A **Outlet Grain Loading and Maximum Air Flow Requirements for Control Devices**

Control Device Identification Number	Control Device Type	Emission Point Identification Number	gr/acf ⁽¹⁾	Maximum Air Flow (acfm)
6ca,6cb,6cc	Baghouses	6e	0.009	175,000
6cd	Baghouse	6e	0.180	950
8c	Baghouse	8e	0.003	28,000
9c	Baghouse	9e	0.003	10,000
10c	Baghouse	10e	0.003	10,000
11c	Baghouse	11e	0.003	2,100
12c	Baghouse	12e	0.003	2,100
13c	Baghouse	13e	0.003	600
14c	Baghouse	14e	0.003	600
15c	Baghouse	15e	0.003	2,700
16c	Baghouse	16e	0.003	2,700
17c	Baghouse	17e	0.003	2,700
18c	Baghouse	18e	0.003	6,400
19c	Baghouse	19e	0.003	6,400
20c	Baghouse	20e	0.003	6,400
21c	Wet Collector	21e	0.030	2,000
22c	Wet Collector	22e	0.030	2,000
23c	Wet Collector	23e	0.030	2,000
24c	Wet Collector	24e	0.009	1,000
25c	Wet Collector	25e	0.009	1,000
26c	Wet Collector	26e	0.009	1,000
27c	Wet Collector	27e	0.009	1,000
28c	Baghouse	28e	0.01	655
29c	Baghouse	29e	0.01	655
30c	Baghouse	30e	0.01	655
31c	Baghouse	31e	0.01	655
32c	Baghouse	32e	0.01	655
33c	Baghouse	33e	0.01	655

⁽¹⁾ gr/acf = grains per actual cubic foot of exit gas. These limits are considered instantaneous limits.(2) Compliance with the maximum air flow is based on the maximum rated capacity of all blowers feeding the emission point.

Table MH-AR

Source-Specific Applicable Requirements for Material Handling Sources – Harrison Power Station

(Compilation of Applicable Requirements)

Emission Unit ID (Reference Attachment D "Emissions Units Table" For Key)	Link From Form E	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Requirement Summary	Monitoring / Testing / Recordkeeping / Reporting Requirement Links
ST-2	MH-1	45CSR§13 R13-1477B, A.3	5.1.3.b	Limit on Amount of Bottom Ash Transported: The combined amount of bottom ash transported to the landfill area (and then possibly sized and sent offsite) and the bottom ash transported directly offsite shall not exceed 192,000 TPY.	MHTRR-1 MHTRR-6
ST-2	MH-2	45CSR§13 R13-1477B, A.3	5.1.3.c	Limit on Amount of Fly Ash Transported: The amount of fly ash, as generated by the Harrison Power Station, to be transported to the landfill (FA_{LF}) shall not exceed the amount as calculated in the following equation: $FA_{LF}(TPY) = 256,000 + ((250,000 - FA_{OS})*0.48)$ Where, $FA_{OS} = \text{Amount of Fly-Ash disposed of from off-site sources.}$	
ST-2	MH-3	45CSR§13 R13-1477B, A.3	5.1.3.c	Limit on Amount of Fly Ash Disposed in Landfill: The maximum amount of fly ash to be disposed of in the landfill shall not exceed 376,000 TPY from the Harrison Power Station and 506,000 TPY total from both Harrison Power Station and offsite sources	MHTRR-1 MHTRR-6
ST-2	MH-4	45CSR§13 R13-1477B, A.3	5.1.3.d	Limit on Amount of FGD Sludge Disposed: The amount of flue gas desulfurization (FGD) sludge to be disposed of either in the landfill or offsite shall not exceed 3,000,000 TPY.	MHTRR-1 MHTRR-6
ST-2	MH-5	45CSR§13 R13-1477B, A.3	5.1.3.e	Limit on Fly Ash Surface Bulldozing Operations: Landfill fly ash surface bulldozing shall be limited to 160 hours per year.	MHTRR-1 MHTRR-6
ST-2	MH-6	45CSR§13 R13-1477B, A.5	5.1.5	Minimum Stabilized Sludge Moisture Content: Stabilized sludge shall be maintained at a minimum of 30% moisture, by weight, prior to final deposition at any landfill.	MHTRR-6

Emission Unit ID (Reference Attachment D "Emissions Units Table" For Key)	Link From Form E	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Requirement Summary	Monitoring / Testing / Recordkeeping / Reporting Requirement Links
CRU-03 C-11	MH-7	40CFR 60.252(c)	6.1.1	Opacity Limit: Opacity of any discharge gases to the atmosphere shall be less than 20%.	MHTRR-4 MHTRR-5 MHTRR-6
All Lime Handling, Lime Storage, Lime Slurry Handling, Absorber Sludge Handling, Solid Waste Handling, and Fly Ash Handling Equipment Listed In Table MH-8A	MH-8	45CSR13 R13-1477A & B	5.1.1	Throughput Limits and Control Equipment Requirements: In accordance with the information filed in Permit Application R13-1477A, R13-1477B and any amendments thereto, the maximum throughputs in Table MH-8A (attached) shall not be exceeded, and, at a minimum, the control equipment specified in Table MH-8A shall be installed, maintained, and operated so as to minimize particulate matter emissions.	MHTRR-1 MHTRR-3 MHTRR-7
All Control Devices Listed In Table MH-9A	MH-9	45CSR13 R13-1477 A & B	5.1.2	Particulate Control Equipment Capacity Limits and Outlet Grain Loading Limits: In accordance with the information filed in Permit Application R13-1477A, R13-1477B, and any amendments thereto, particulate matter (PM) emissions from the emission points listed in Table MH-9A shall not exceed the limitations given in Table MH-9A and the maximum exit gas flows from the control devices as listed in Table MH-9A shall not be exceeded.	MHTRR-3
LRCH, 11va, 12va	MH-10	45CSR13 R13-1477, Cond. A.3	5.1.3.a	Limit on Annual Input to Lime Handling System : The input of lime into the lime handling system shall not exceed 627,546 tons per year	MHTRR-1 MHTRR-7

Emission Unit ID (Reference Attachment D "Emissions Units Table" For Key)	Link From Form E	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Requirement Summary	Monitoring / Testing / Recordkeeping / Reporting Requirement Links
LRCH, 11va, 12va	MH-11	45CSR13 R13-1477, Cond. A.3	5.1.3.f	Operating Hours Limit on Lime Unloading Operations: Lime unloading operations shall be limited to 2,920 hours per year.	MHTRR-7
LRCH, 6si, 6sj, 8sa, 8sb, 8sg, 8sh, 13, 14, 11va, 12va, 37, 38, 9va, 10va, 24s, 25s, 26s, 27s, 24v, 25v, 26v, 27v 15va, 16vb, 17vb, 33, 34, 35, 18va, 19va, 20va, 18vb, 19vb, 20vb, 21va, 22va, 23va, 21vb, 22vb, 23vb, 21vc, 22vc, 23vc, 21vd, 22vd, 23vd, 21s, 22s, 23s, 21, 22. 23, 37v, 38v, 37, 38	MH-12	45CSR13 R13-1477B, B.2 45CSR§7-3.1 45CSR§7-3.2	5.1.6	Opacity Limit – Process Sources: The emission of smoke and/or particulate matter into the open air having greater than twenty (20) percent opacity from any process source operation is prohibited, except as noted in Subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7 of 45CSR §7-3. This requirement does not apply to smoke and/or particulate matter emitted from any process source operation which is less than forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period.	MHTRR-8
13, 14, 21, 22, 23, 33, 34, 35, 37, 38	MH-13	45CSR13 R13-1477B, B.2 45CSR§7-3.7	5.1.6	Visible Emissions Limit – Storage Structures: No visible emissions are permitted from any storage structures associated with any manufacturing processes that are required to have a full enclosure and be equipped with a particulate matter control device.	MHTRR-8

Emission Unit ID (Reference Attachment D "Emissions Units Table" For Key)	Link From Form E	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Requirement Summary	Monitoring / Testing / Recordkeeping / Reporting Requirement Links
LRCH, 6si, 6sj, 8sa, 8sb, 8sg, 8sh, 13, 14, 11va, 12va, 37, 38, 9va, 10va, 24s, 25s, 26s, 27s, 24v, 25v, 26v, 27v 15va, 16vb, 17vb, 33, 34, 35, 18va, 19va, 20va, 18vb, 19vb, 20vb, 21va, 22va, 23va, 21vb, 22vb, 23vb, 21vc, 22vc, 23vc, 21vd, 22vd, 23vd, 21s, 22s, 23s, 21, 22. 23, 37v, 38v, 37, 38	MH-14	45CSR13 R13-1477B, B.2 45CSR§7-4.1	5.1.6	Particulate Weight Emission Limits – Process Sources: Particulate matter may not be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A of 45CSR§7.	MHTRR-3

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Emission Unit ID (Reference Attachment D "Emissions Units Table" For Key)	Link From Form E	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Requirement Summary	Monitoring / Testing / Recordkeeping / Reporting Requirement Links
LRCH, 6si, 6sj, 8sa, 8sb, 8sg, 8sh, 13, 14, 11va, 12va, 37, 38, 9va, 10va, 24s, 25s, 26s, 27s, 24v, 25v, 26v, 27v 15va, 16vb, 17vb, 33, 34, 35, 18va, 19va, 20va, 18vb, 19vb, 20vb, 21va, 22va, 23va, 21vb, 22vc, 23vc, 21vd, 22vd, 23vd, 21s, 22s, 23s, 21, 22. 23, 37v, 38v, 37, 38	MH-15	45CSR13 R13-1477B, B.2 45CSR§7-5.1	5.1.6	Process Fugitive Particulate Control Requirement: Process or storage structures generating fugitive particulate matter may not operate unless equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.	MHTRR-8
N/A	N/A	R13-2988; Condition 4.1.1, 4.1.2, and 4.1.3; Condition 4.1.8.	New	Emissions from activities shall not exceed any of the short-term or long-term emissions limitations specified in the tables under 4.1.1, 4.1.2, and 4.1.3.	N/A
N/A	N/A	R13-2988; Condition 4.1.4	New	The facility's annual throughput of total coal shall not exceed 500,000 tons per year, based on a 12-month rolling total.	N/A
N/A	N/A	R13-2988; Condition 4.1.5; 45CSR§2-5.1.	New	Permittee shall no operate any source of fugitive particulate matter unless it is equipped with a fugitive dust control system, which is operated and maintained in such a manner as to minimize the emissions of fugitive particulate matter.	N/A

Monongahela Power Company Harrison Power Station

Emission Unit ID (Reference Attachment D "Emissions Units Table" For Key)	Link From Form E	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Requirement Summary	Monitoring / Testing / Recordkeeping / Reporting Requirement Links
N/A	N/A	R13-2988; Condition 4.1.6; 40 CFR §60.254(b)	New	(1) Owner or operator must not cause to be discharged into the atmosphere from the affected facility any gases which exhibit 10 percent opacity or greater; (2) Owner or operator must not cause to be discharged into the atmosphere from any mechanical vent on an affected facility gases which contain particulate matter in excess of 0.023 g/dscm (0.010 gr/dscf); (3) equipment used in the loading, unloading and conveying operation of open storage piles are not subject to the 10% opacity limitations from Item 1 above.	N/A
N/A	N/A	R13-2988; Condition 4.1.7; 40 CFR §60.254(c)	New	Fugitive Coal Dust Emissions Control Plan for Subpart Y; owner or operator of an open storage pile, including the loading, unloading, and conveying operations of the affected facility, must prepare and operate the facility in accordance with a submitted fugitive coal dust emissions control plan that is appropriate for the site conditions as specified in R13-2988 Conditions 4.1.7(c)(1) through (6).	N/A
N/A	N/A	R13-2988; Condition 4.1.9; 40 CFR§13-5.11.	New	Operation and maintenance of air pollution control equipment. Install, maintain, and operate all pollution control equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth by any State rule, federal regulation, or alternative control plan approved by the Secretary.	N/A

^{*}Note: Conditions highlighted in blue font pertain to the Rapid Discharge Rail Unloader (RDRU) system that was approved under Permit R13-2988. At the date of this application, the system has not yet been operated or installed at the Harrison facility.

Table MH-TRR

MHTRR. Materials Handling Sources – Harrison Power Station – Emissions Unit Testing, Recordkeeping and Reporting Requirements

(Compilation of Monitoring, Testing, Reporting and Recordkeeping Requirements)

Link from Applicable Requirement	Emission Unit ID (See Attachment D "Equipment Table" For Key)	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Requirement Summary
MHTRR-1	ST-2, All Lime Handling, Lime Storage, Lime Slurry Handling, Absorber Sludge Handling, Solid Waste Handling, and Fly Ash Handling Equipment Listed In Table MH-8A	45CSR13 R13-1477B, A3	5.1.3	Record material throughput and hours of operation. All annual limits are calculated using a rolling yearly total. A rolling yearly total shall mean the sum of the material throughput at any given time for the previous twelve (12) months.
	All facility emission units	45CSR§30-5.1.c	5.4.1	Maintain a record of each visible emission observation, including any data required by 40 CFR Part 60, Appendix A, Method 9, on site for at least five (5) years after the date of the observation. Each record shall include the date, time name of observer, name of emission unit, applicable visible emission requirement, and the results of each observation. The records shall also include any maintenance or corrective actions taken as a result of the weekly inspections, and the times the fugitive dust control systems are inoperable.

Link from Applicable Requirement	Emission Unit ID (See Attachment D "Equipment Table" For Key)	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Requirement Summary
MHTRR-3	All Control Devices Listed In Table MH-9A servicing the following Emissions Units: LRCH, 6si, 6sj, 8sa, 8sb, 8sg, 8sh, 13, 14, 11va, 12va, 37, 38, 9va, 10va, 24s, 25s, 26s, 27s, 24v, 25v, 26v, 27v 15va, 16va, 17va, 15vb, 16vb, 17vb, 33, 34, 35, 18va, 19va, 20va, 18vb, 19vb, 20vb, 21va, 22va, 23va, 21vb, 22vb, 23vb, 21vc, 22vc, 23vc, 21vd, 22vd, 23vd, 21s, 22s, 23s, 21, 22, 23, 37v, 38v, 37, 38	45CSR13 R13-1477B, A.6 R13-1477B, B.5 R13-1477B, B.6	5.2.1 5.2.2	Test Methods for PM Emissions: Tests that are required by the Director to determine compliance with the emission limitations for this emissions unit shall be conducted in accordance with the methods as set forth in a.) and b.) below. The Director may require a different test method or approve an alternative method in light of any new technology advancements that may occur. Compliance testing shall be conducted at the maximum permitted operating conditions unless otherwise specified by the Director. a.) Tests to determine compliance with PM emission limits shall be conducted in accordance with 45CSR7A. b.) Submit to the Director of Air Quality a test protocol detailing the proposed test methods, the date, and the time the proposed testing is to take place, as well as identifying the sampling locations and other relevant information. The test protocol must be received by the Director no less than thirty (30) days prior to the date the testing is to take place Test results shall be submitted to the Director no more than sixty (60) days after the date the testing takes place.

Link from Applicable Requirement	Emission Unit ID (See Attachment D "Equipment Table" For Key)	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Requirement Summary
MHTRR-4	CRU-03	45CSR §30-5.1c 40 CFR 60.254	6.2.1	Monitoring and Testing Requirements: Emission unit CRU-03 shall be observed visually at least each calendar month during periods of normal facility operation for a sufficient time interval to determine if the unit has any visible emissions using 40 C.F.R. 60 Appendix A, Method 22. If visible emissions are observed during these monthly observations, or at any other time, that appear to exceed the allowable visible emission requirement in Section 8.1.1, visible emissions evaluations in accordance with 40 C.F.R. 60 Appendix A, Method 9 shall be conducted as soon as practicable, but no later than one month from the time of the observation. A visible emissions evaluation in accordance with 40 C.F.R. 60 Appendix A, Method 9 shall not be required under condition Section 8.2.1 if the visible emissions condition is corrected in a timely manner; the emission unit CRU-03 is operating at normal operating conditions; and, the cause and corrective measures taken are recorded.
MHTRR-5	CRU-03	40 CFR 60.254	6.3.1	Performance Test Methods: In conducting the performance tests which may be required by 40 CFR §60.8, reference methods and procedures shall be based on the test methods in appendix A of 40 CFR 60, or other methods and procedures as specified in 40 CFR §60.8, except as provided in 40 CFR §60.8(b).
MHTRR-6	CRU-03	45CSR §30-5.1c	6.4.1	Records Retention: Retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date.

Link from Applicable Requirement	Emission Unit ID (See Attachment D "Equipment Table" For Key)	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Requirement Summary
MHTRR-7	All Lime Handling, Lime Storage, Lime Slurry Handling, Absorber Sludge Handling, Solid Waste Handling, and Fly Ash Handling Equipment Listed In Table MH-8A plus ST-	45CSR13 R13-1477B, B.7	5.4.2	Throughput and Bulldozing Recordkeeping Requirements: For the purposes of determining compliance with maximum throughput limits set forth in Section 5.1.3, the applicant shall maintain monthly records of the throughputs of the specified materials and the hours of operation of the bulldozing operations.

Link from Applicable Requirement	Emission Unit ID (See Attachment D "Equipment Table" For Key)	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Requirement Summary
MHTRR-8	LRCH, 6si, 6sj, 8sa, 8sb, 8sg, 8sh, 13, 14, 11va, 12va, 37, 38, 9va, 10va, 24s, 25s, 26s, 27s, 24v, 25v, 26v, 27v 15va, 16va, 17va, 15vb, 16vb, 17vb, 33, 34, 35, 18va, 19va, 20va, 18vb, 19vb, 20vb, 21va, 22va, 23va, 21vb, 22vb, 23vb, 21vc, 22vc, 23vc, 21vd, 22vd, 23vd, 21s, 22s, 23s, 21, 22. 23, 37v, 38v, 37, 38.	45CSR§30-5.1.c.	3.4.4	Fugitive Dust Control: Maintain records indicating the use of dust suppressants or any other suitable dust control measures applied at the facility. Inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs. Maintain records of all scheduled and unscheduled maintenance and state any maintenance or corrective actions taken as a result of the weekly and/or monthly inspections, the times the fugitive dust control systems were inoperable, and any corrective actions taken.
N/A		R13-2988, Condition 4.3.1	New	Records of Monitoring - permittee shall keep records of the following: (a) date, place and time of sampling; (b) date of analyses; (c) company performing analyses; (d) analytical method; (e) results of analyses; and (f) operating conditions at time of measurement/sampling.

Link from Applicable Requirement	Emission Unit ID (See Attachment D "Equipment Table" For Key)	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Requirement Summary
N/A		R13-2988, Condition 4.3.2	New	Permittee shall maintain accurate records of all required pollution control equipment inspections and/or preventative maintenance procedures.
N/A		R13-2988, Condition 4.3.3	New	Permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of air pollution control equipment during which excess emissions occur. Records shall include the equipment involved, steps taken to minimize emissions, duration, and estimated increase of emissions resulting from incident.
N/A		R13-2988, Condition 4.3.4	New	Monitor and record the amount of coal processed through the facility on a monthly basis.
N/A		R13-2988, Condition 4.3.5	New	Records of any Method 22 or Method 9 testing in order to determine compliance with Conditions 4.2.1 and 4.2.2 of Permit R13-2988 shall be maintained on site for at least five (5) years; records shall be certified and made available to the WVDEP Director upon request.
N/A		R13-2988, Condition 4.4.1	New	Any violation of the allowable visible emission requirement for any emission source discovered during observation using 40 CFR 60, Appendix A, Method 9 must be reported in writing to the Director of DAQ as soon as practicable, but within ten (10) calendar days of the occurrence, and shall include, at a minimum, the following information: results of testing, cause or suspected cause, and corrective measures taken.

Link from Applicable Requirement	Emission Unit ID (See Attachment D "Equipment Table" For Key)	Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015- 2009	Requirement Summary
N/A		R13-2988, Condition 4.2.1; 40CFR§60.255(b), (b)(2), (b)(2)(i) and (b)(2)(ii)	New	Compliance with 40 CFR 60, Subpart Y: conduct performance testing in accordance with §60.8 and methods identified in §60.257; conduct initial performance testing and subsequent testing when any 6-minute average opacity in most recent performance test exceeds half the applicable opacity limi within 90 days of that test; if all 6-minute average opacity readings in the most recent performance test are equal to or less than half the applicable opacity limit, a new performance test must be completed within 12 calendar months of that previous test.
N/A		R13-2988, Condition 4.2.2; 40CFR§60.255(f) and (f)(1)	New	Alternative monitoring method for compliance with 40 CFR 60, Subpart Y: In accordance with §2.3 of Method 22 of Appendix A-7, conduct one daily 15-second observation each operating day for each affected process (during normal operation) when the coal preparation and processing plant is in operation. Each observation must be recorded as either visible emissions observed or no visible emissions observed. If visible emissions are observed, adjust operations and demonstrated within 24 hours that no visible emissions are observed; if visible emissions are still observed, conduct Method 9 observation within 45 operating days. Conduct monthly visual observations of all processes and control equipment. If any deficiencies are observed, the necessary maintenance must be performed as expeditiously as possible. Conduct Method 9 visible emissions testing once every five (5) calendar years for each affected facility.
N/A		R13-2988, Condition 4.2.2(2); 40CFR§60.255(f)(2)	New	Alternative monitoring method for compliance with 40 CFR 60, Subpart Y: prepare site-specific monitoring plan for a digital opacity compliance system for approval by the Administration or delegated authority as detailed in R13-2988, Condition 4.2.2(2).

^{*}Note: Conditions highlighted in blue font pertain to the Rapid Discharge Rail Unloader (RDRU) system that was approved under Permit R13-2988. At the date of this application, the system has not yet been operated or installed at the Harrison facility.

ATTACHMENT E Miscellaneous Emissions Units

Cooling Towers
Paved Roads
Unpaved Roads
Gasoline UST
Wastewater Treatment
Insignificant Tanks

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: Cool-01	Emission unit name: Cooling Towers (2)	List any control devices associated with this emission unit: N/A		
Provide a description of the emissio Natural Draft Cooling Towers (2), 6		esign parameters, etc.	·):	
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date: 1971	Installation date:	Modification date(s):	
Design Capacity (examples: furnace 585,000 gpm circulating water rate				
Maximum Hourly Throughput 585,000 gpm (each)	Maximum Annual Throughput: N/A	Maximum Operating Schedule: 8,760 hours		
Fuel Usage Data (fill out all applica	ble fields)			
Does this emission unit combust fue	!? Yes _X No	If yes, is it?		
		Indirect Fired	Direct Fired	
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:	
List the primary fuel type(s) and if a the maximum hourly and annual fu		s). For each fuel type	listed, provide	
Describe each fuel expected to be us	ed during the term of the permit.			
Fuel Type	Fuel Type Max. Sulfur Content		BTU Value	
_				

Criteria Pollutants	Potential Emissions		
SHOTA TOTALANS	PPH	TPY	
arbon Monoxide (CO)			
itrogen Oxides (NO _X)			
ead (Pb)			
articulate Matter (PM _{2.5})	121.75	533.26	
Particulate Matter (PM ₁₀)	121.75	533.26	
Cotal Particulate Matter (TSP)	121.75	533.26	
sulfur Dioxide (SO ₂)			
olatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potential Emissions		
	РРН	TPY	
Regulated Pollutants other than Criteria and HAP		Emissions	
	PPH	TPY	

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Emissions based upon design drift rate of 0.03%, and a TDS+TSS value of 1,639 ppm. Assumed that TSP = PM_{10} = $PM_{2.5}$

Applicable Requirements				
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.				
There are no emissions unit-specific requirements for Cool-01				
X Permit Shield				
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)				
There are no emissions unit-specific testing, recordkeeping, reporting requirements for Cool-01				
Are you in compliance with all applicable requirements for this emission unit? _X_YesNo				
If no, complete the Schedule of Compliance Form as ATTACHMENT F .				

ATTACHMENT E - Emission Unit Form						
Emission Unit Description						
Emission unit ID number: PVR	Emission unit name: Paved Roads	List any control devices associated with this emission unit: Water Truck				
Provide a description of the emission unit (type, method of operation, design parameters, etc.): This unit consists of all paved roads at the facility including those serving deliveries and haulage to landfills. Approximately 12.52 miles of paved roads exist on-site.						
Manufacturer: N/A	Model number: N/A	Serial number: N/A				
Construction date: N/A	Installation date: N/A	Modification date(s	;):			
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): N/A						
Maximum Hourly Throughput N/A	Maximum Annual Throughput: N/A	Maximum Operation 8,760 hours	ng Schedule:			
Fuel Usage Data (fill out all applical	ole fields)					
Does this emission unit combust fuel?Yes _X No If yes, is it?						
	Indirect Fired	Direct Fired				
Maximum design heat input and/or	Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners:					
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.						
Describe each fuel expected to be used during the term of the permit.						
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value			

Emissions Data				
Criteria Pollutants	Potential Emissions			
	РРН	TPY		
Carbon Monoxide (CO)				
Nitrogen Oxides (NO _X)				
Lead (Pb)				
Particulate Matter (PM _{2.5})	23.70	56.82		
Particulate Matter (PM ₁₀)	156.18	378.98		
Total Particulate Matter (TSP)	813.39	1,961.63		
Sulfur Dioxide (SO ₂)				
Volatile Organic Compounds (VOC)				
Hazardous Air Pollutants	Potenti	al Emissions		
	PPH	TPY		
Regulated Pollutants other than	Potenti	al Emissions		
Criteria and HAP	PPH	TPY		
List the method(s) used to calculate the		es of any stack tests conducted,		
versions of software used, source and da	ates of emission factors, etc.).			
Emissions based upon Paved Road a	ctivity – AP-42 Section 13.2.1 (Revised 11/2006).		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirement Citation	Permit Condition Number from Permit	Emissions Unit-Specific Requirement Summary
45CSR13 R13-1477B, Condition A.4	R30-03300015-2009	Fugitive Dust Control – Haul Roads: Fugitive dust control measures for haul roads shall be utilized and maintained in such a manner as to minimize dust generation and atmospheric entrainment. Those measures shall include a continuous program of watering haul road(s) and by wet-vacuum sweeping of paved haul roads at all times haulage trucks are in operation unless such haul roads are adequately wetted by natural rainfall. a. Water truck to be utilized shall be equipped with manufactured-type spray nozzles which are pressurized per manufacturer's recommended guidelines for controlling fugitive dust emissions. b Vacuum sweeper shall be of the type that utilizes wet vacuuming and filtration prior to exhausting air. c. A maximum speed limit of 15 miles per hour shall be maintained
		on all unpaved roads. A clear and visible sign shall be posted at the beginning of all unpaved roads clearly displaying this speed limit.
45CSR13 R13-1477B, Condition B.2 45CSR§7-5.2	5.1.6	Particulate Matter Control of Roads: Maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment.

__X__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Applicable Requirement Citation	Permit Condition Number from Permit R30-03300015-2009	Emissions Unit-Specific Requirement Summary
45CSR13 R13-1477B, Condition B.7	5.4.2	Water Truck Recordkeeping Requirement: For the purposes of determining compliance with the water truck requirement in Condition 5.1.4, maintain a certified daily and monthly record of water truck usage. Such records shall be retained by the permittee for at least five (5) years. Certified records shall be made available to the Director or his/her duly authorized representative upon request.

Are you in compliance with all applicable requirements for this emission unit? __X_Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: UPVR	Emission unit name: Unpaved Roads	List any control devices associated with this emission unit: Water Truck		
Provide a description of the emission unit (type, method of operation, design parameters, etc.): This unit consists of emissions from all unpaved roads at the facility (limited to coal pile and disposal area vicinity). Approximately 0.2 miles of unpaved roads exist on-site.				
Manufacturer: N/A	Model number: N/A	Serial number: N/A		
Construction date: N/A	Installation date: N/A	Modification date(s	s):	
Design Capacity (examples: furnace N/A	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: 8760 hours		
Fuel Usage Data (fill out all applicate	ole fields)	1		
Does this emission unit combust fue	!?Yes _X No	If yes, is it?		
	Indirect Fired Direct Fired			
Maximum design heat input and/or	maximum horsepower rating:	Type and Btu/hr ra	ting of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.				
Describe each fuel expected to be us	ed during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Potential Emissions		
РРН	TPY	
2.53	3.37	
25.33	33.69	
86.36	114.86	
Potenti	al Emissions	
РРН	TPY	
Potential Emissions		
PPH	TPY	
	es of any stack tests conducted,	
activity – AP-42 Section 13.2	2 (Revised 11/2006)	
2011119 711 12 00011011 10121	11/2000/1	
•	2.53 25.33 86.36 Potenti PPH Potenti PPH	

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable	Permit Condition	Emissions Unit-Specific Requirement
Requirement Citation		Emissions one specific requirement
45CSR13 R13-1477B, Condition A.4	5.1.4	Fugitive Dust Control – Haul Roads: Fugitive dust control measures for haul roads shall be utilized and maintained in such a manner as to minimize dust generation and atmospheric entrainment. Those measures shall include a continuous program of watering haul road(s) and by wet-vacuum sweeping of paved haul roads at all times haulage trucks are in operation unless such haul roads are adequately wetted by natural rainfall. a. Water truck to be utilized shall be equipped with manufactured-type spray nozzles which are pressurized per manufacturer's recommended guidelines for controlling fugitive dust emissions. b Vacuum sweeper shall be of the type that utilizes wet vacuuming and filtration prior to exhausting air. c. A maximum speed limit of 15 miles per hour shall be maintained on all unpaved roads. A clear and visible sign shall be posted at the beginning of all unpaved roads clearly displaying this speed limit.
45CSR13 R13-1477B, Condition B.2 45CSR§7-5.2	5.1.6	Particulate Matter Control of Roads: Maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment.

__X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Applicable	Permit Condition	Emissions Unit-Specific Requirement Summary
Requirement Citation	Number from Permit R30-03300015-2009	
45CSR13 R13-1477B, Condition B.7	5.4.2	Water Truck Recordkeeping Requirement: For the purposes of determining compliance with the water truck requirement in Condition 5.1.4, maintain a certified daily and monthly record of water truck usage. Such records shall be retained by the permittee for at least five (5) years. Certified records shall be made available to the Director or his/her duly authorized representative upon request.

Are you in compliance with all applicable requirements for this emission unit? __X_Yes ____No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control devices associated with this emission unit.	
U2HN	Harrison Gasoline UST		
Provide a description of the emission up 2,000 gallon underground storage tan			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date:	Installation date: 1990	Modification date(s):	
Design Capacity (examples: furnaces -	tons/hr, tanks - gallons): 2,000 gal	lons	
Maximum Hourly Throughput:	Maximum Annual Throughput: 15,080 gallons	Maximum Operating Schedule: 8,760 hours per year	
Fuel Usage Data (fill out all applicable	fields)		
Does this emission unit combust fuel?Yes _X No If yes, is it?			
Indirect Fired Direct Fired			
Maximum design heat input and/or ma	Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners:		
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data			
Cuitonio Dellutonto	Potential Emissions		
Criteria Pollutants	РРН	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO _X)			
Lead (Pb)			
Particulate Matter (PM _{2.5})			
Particulate Matter (PM ₁₀)			
Total Particulate Matter (TSP)			
Sulfur Dioxide (SO ₂)			
Volatile Organic Compounds (VOC)	0.014	0.064	
W 1 4: D 11 4	Potentia	al Emissions	
Hazardous Air Pollutants	РРН	TPY	
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP	РРН	TPY	
List the method(s) used to calculate the		of any stack tests conducted, version	
of software used, source and dates of	, ,		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Gasoline storage tank shall be loaded by submerged fill – 45CSR21-23.2.a.1

X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Reports of excess emissions. -- Except as provided in section 9.3 ("variance") of 45CSR21, for each occurrence of excess emissions expected to last more than 7 days, within 1 business day of becoming aware of such occurrence, supply the Director by letter with the following information:

- a. The name and location of the facility;
- b. The subject sources that caused the excess emissions;
- c. The time and date of first observation of the excess emissions; and
- d. The cause and expected duration of the excess emissions.
- f. The proposed corrective actions and schedule to correct the conditions causing the excess emissions.

45CSR21-5.2 (Not in current Title V operating permit)

Are you in compliance with all applicable requirements for this emission unit? X Yes ____No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number: WASTEWATER	Emission unit name: Harrison Wastewater Operations	List any control devices associated with this emission unit. None	
Provide a description of the emission us Wastewater operations for Harrison s			
Manufacturer:	Model number:	Serial number:	
Construction date:	Installation date:	Modification date(s):	
Design Capacity (examples: furnaces - Lagoon 1 - 18.9 MM gallons; Lagoon 2 – 19.4 MM gallons	tons/hr, tanks - gallons):		
Maximum Hourly Throughput:	Maximum Annual Throughput: 6,084.55 MMgal/yr	Maximum Operating Schedule: 8,760 hours per year	
Fuel Usage Data (fill out all applicable	fields)	,	
Does this emission unit combust fuel?	YesX No	If yes, is it? Indirect Fired	Direct Fired
Maximum design heat input and/or ma	ximum horsepower rating:	Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if app maximum hourly and annual fuel usag		For each fuel type list	ted, provide the
Describe each fuel expected to be used	during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Criteria Pollutants PPH Carbon Monoxide (CO) Nitrogen Oxides (NO _X) Lead (Pb) Particulate Matter (PM _{2.5}) Particulate Matter (PM ₁₀) Total Particulate Matter (TSP) Sulfur Dioxide (SO ₂) Volatile Organic Compounds (VOC) Hazardous Air Pollutants Potential Emissions PPH	Cuitania Dallatanta	Potentia	al Emissions
Nitrogen Oxides (NO _X) Lead (Pb) Particulate Matter (PM _{2.5}) Particulate Matter (PM ₁₀) Total Particulate Matter (TSP) Sulfur Dioxide (SO ₂) Volatile Organic Compounds (VOC) Total Particulate Matter (TSP) Potential Emissions	Criteria Poliutants	PPH	TPY
Lead (Pb) Particulate Matter (PM _{2.5}) Particulate Matter (PM ₁₀) Total Particulate Matter (TSP) Sulfur Dioxide (SO ₂) Volatile Organic Compounds (VOC) Total Particulate Matter (TSP) Potential Emissions	Carbon Monoxide (CO)		
Particulate Matter (PM _{2.5}) Particulate Matter (PM ₁₀) Total Particulate Matter (TSP) Sulfur Dioxide (SO ₂) Volatile Organic Compounds (VOC) Total Particulate Matter (TSP) Fotential Emissions	Nitrogen Oxides (NO _X)		
Particulate Matter (PM ₁₀) Total Particulate Matter (TSP) Sulfur Dioxide (SO ₂) Volatile Organic Compounds (VOC) Total Particulate Matter (TSP) Sulfur Dioxide (SO ₂) Volatile Organic Compounds (VOC) Potential Emissions	Lead (Pb)		
Total Particulate Matter (TSP) Sulfur Dioxide (SO ₂) Volatile Organic Compounds (VOC) Total Particulate Matter (TSP) 7.04 Potential Emissions	Particulate Matter (PM _{2.5})		
Sulfur Dioxide (SO ₂) Volatile Organic Compounds (VOC) 7.04 Potential Emissions	Particulate Matter (PM ₁₀)		
Volatile Organic Compounds (VOC) 7.04 Potential Emissions Hazardous Air Pollutants	Γotal Particulate Matter (TSP)		
Hazardous Air Pollutants Potential Emissions	Sulfur Dioxide (SO ₂)		
Hazardous Air Pollutants	Volatile Organic Compounds (VOC)	7.04	30.84
PPH PPH	Honordona Air Dollatonta	Potential Emissions	
	Hazardous Air Pollutants	PPH	TPY
Regulated Pollutants other than Potential Emissions		Potential	Emissions
Criteria and HAP PPH	Criteria and HAP	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EPA WATER9 software.

Supporting emission calculation information is provided in Appendix A.

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (<i>Note: Title V permit condition numbers alone are not the underlying applicable requirements</i>). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit-specific applicable requirements for WASTEWATER
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
There are no emissions unit-specific applicable requirements for WASTEWATER
Are you in compliance with all applicable requirements for this emission unit? X YesNo
If no, complete the Schedule of Compliance Form as ATTACHMENT F .

ATTACHMENT E - Emission Unit Form			
Emission Unit Description			
Emission unit ID number:	Emission unit name:	List any control devices associated	
Insig Tanks	Insignificant Storage Tanks	with this emission u	ınit.
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Storage tanks that store volatile organic (or non-volatile/ non-organic) liquids that are not subject to any applicable state or federal requirements. Emissions from these tanks are negligible based on the products stored, tank capacity and annual throughputs.			
Manufacturer:	Model number:	Serial number:	
Construction date:	Installation date:	Modification date(s	s):
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): See attached table for list of tank capacities and product stored.			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operation 8760 hours per year	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel?YesX NoIf		If yes, is it?	
		Indirect Fired	Direct Fired
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data			
Criteria Pollutants	Potential Emissions		
Criteria Fondiants	PPH	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO _X)			
Lead (Pb)			
Particulate Matter (PM _{2.5})			
Particulate Matter (PM ₁₀)			
Total Particulate Matter (TSP)			
Sulfur Dioxide (SO ₂)			
Volatile Organic Compounds (VOC)		Negligible	
П 1 4: В 14 4	Pote	Potential Emissions	
Hazardous Air Pollutants	РРН	TPY	
	Negligible		
Regulated Pollutants other than	Poter	ntial Emissions	
Criteria and HAP	PPH	TPY	
List the method(s) used to calculate the of software used, source and dates of		ates of any stack tests conducted, versions	

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no applicable requirements for the tanks grouped in this emissions unit
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
There are no monitoring, testing, recordkeeping or reporting requirements for the tanks grouped in this emissions unit.
Are you in compliance with all applicable requirements for this emission unit? X YesNo

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

Harrison Power Station Storage Tank Inventory for Emission Unit: Insig Tanks

	Year	Tank Capacity	
Tank ID#	Installed	(gal)	Stored Substance
A3HN	1991	10,000	Sulfuric Acid Tank 2
A4HN	1978	10,000	Sulfuric Acid Tank 1
A6HN	1980	12,000	Coal Flow Additive
A7HN	1980	12,000	Coal Flow Additive
A8HN	1980	12,000	Coal Flow Additive
A9HN	1971	1200	Propylene glycol
A10HN	1971	1200	Propylene glycol
A11HN	1971	1200	Propylene glycol
A12HN	2002	500	Propylene glycol
A14HN	2000	4,000	Phosphonate
A15HN	1971	750,000	Chemical Cleaning Waste
A16HN	1971	300	No. 2 Fuel Oil
A17HN	1971	300	No. 2 Fuel Oil
A18HN	1971	200	No. 2 Fuel Oil
A19HN	1978	125,000	Diesel Fuel
A20HN	1990	4000	Kerosene
A21HN	1974	800	Turb. Oil Reservoir
A22HN	1974	800	Turb. Oil Reservoir
A23HN	1974	800	Turb. Oil Reservoir
A24HN	1974	800	Turb. Oil Reservoir
A25HN	1974	800	Turb. Oil Reservoir
A26HN	1974	800	Turb. Oil Reservoir
A27HN	1971	800	Oil Reservoir
A28HN	1971	800	Oil Reservoir
A29HN	1971	800	Oil Reservoir
A30HN	1971	12,200	Turbine Oil Reservoir
A31HN	1971	12,200	Turbine Oil Reservoir
A32HN	1971	12,200	Turbine Oil Reservoir
A33HN	1971	932	Turbine Oil Filter
A34HN	1971	932	Turbine Oil Filter
A35HN	1971	932	Turbine Oil Filter
A36HN	1971	300	Hydraulic Oil
A37HN	1971	300	Hydraulic Oil
A38HN	1971	300	Hydraulic Oil
A39HN	1971	1,000	Waste Oil
A51HN	1989	1,200	Waste Oil
A52HN	1984	100	Hazardous Waste Oil
A53HN	1990	12,000	Dozer Fuel Oil
A80HN	1995	2000	Polymer
A95HN	1995	275	No. 2 Fuel Oil
A97HN	1971	1500	Biocide DGH
A98HN	1971	1500	Biocide QUAT
A301HN	1971	250	Loop Seal Oil
A302HN	1971	250	Loop Seal Oil
A303HN	1971	250	Loop Seal Oil
A163HN	App 1980	10	Part Cleaner Tank
A164HN	App 1980	50	Part Cleaner Tank
A173HN	App 1980	50	Part Cleaner Tank
A166HN	App 1980	50	Parts Cleaner Tank
A167HN	App 1980	50	Parts Cleaner Tank
A299HN	1972	15,000	Clean Turbine Oil
MEDDI IIN	1312	13,000	Cican Turbine Oil

Tank ID#	Year Installed	Tank Capacity (gal)	Stored Substance
A300HN	1972	15,000	Waste Turbine Oil
A96HN	1985	330	Ammonium Hydroxide
A101HN	1985	600	Polymer (Nalco 2706)
A102HN	1985	100	Coagulant (Nalco7735)
A103HN	1995	50	Sodium Sulfite
A104HN	1968	600	(Nalco LCS 3800)
A107HN	1995	340	Biocide (Nalco H-135)
A109HN	1995	340	Biocide (Nalco H-135)
A110HN	1995	300	Sodium Hypochlorite (15%)
A116HN	1968	75	Ammonium Hydroxide
A117HN	1968	75	Ammonium Hydroxide
A118HN	1968	75	Ammonium Hydroxide
A120HN	1968	50	Trisodium Phosphate
A121HN	1968	50	Ammonium Hydroxide-
A122HN	1968	75	Calgon C-5
A123HN	1968	100	Sodium Hypochlorite (15%) (Potable Water)
A125 HN	2000	3135	Polypropylene Glycol
A126HN	2000	3135	Polypropylene Glycol
A164HN	2001	13450	Urea Solution (40%)
A165HN	2001	13450	Urea Solution (40%)
A166HN	2001	40000	Urea Solution (40%)
A167HN	2002	2000	Biocide (Nalco 7320)
A175HN	2001	200	Hydraulic Oil
A176HN	2001	200	Hydraulic Oil
A177HN	2001	200	Hydraulic Oil
A178HN	1991	65	Lube Oil
A179HN	1991	65	Lube Oil
A180HN	1991	65	Lube Oil
A181HN	1991	65	Lube Oil
A182HN	2001	65	Hydraulic Oil
A183HN	2001	65	Hydraulic Oil
A184HN	2001	65	Hydraulic Oil
A281HN	2001	110	Lube Oil
A282HN	2001	110	Lube Oil
A283HN	2001	110	Lube Oil
A284HN	2001	110	Lube Oil
A285HN	2001	110	Lube Oil
A286HN	2001	110	Lube Oil
A287HN	1991	110	Lube Oil
A288HN	1991	110	Lube Oil
A289HN	1991	110	Lube Oil
A290HN	1991	110	Lube Oil
A291HN	1991	110	Lube Oil
A292HN	1991	110	Lube Oil
A294HN	2002	500	Propylene Glycol
A295HN	2002	500	Propylene Glycol
A296HN	2002	100	Propylene Glycol
A297HN	2002	2500	Biocide (Nalco 7320)

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number:	Emission unit name:	List any control devices associ		
UR-1	UR-1	with this emission unit: Dust Collectors 28c, 29c, 30c, 31c		
Provide a description of the emission Four (4) Urea Storage Silos (each				
Manufacturer:	Model number:	Serial number:		
Construction date: 1994	Installation date: 1994	Modification date(s):	
Design Conseity (eventules frances	g tong/hu tonka gollong).			
Design Capacity (examples: furnace 9,000 cubic feet.	s - tons/m, tanks - ganons):			
Maximum Hourly Throughput: 25 tons urea	Maximum Annual Throughput: 219,000 tons urea	Maximum Operation 8760 hours	ng Schedule:	
25 toris area	210,000 tolis area	0700 110013		
Fuel Usage Data (fill out all applicat	ole fields)	T		
Does this emission unit combust fuel? Yes X No		If yes, is it?		
		Indirect Fired	Direct Fired	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr ra	ting of burners:	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.				
Describe each fuel expected to be used during the term of the permit.				
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	
		1		

Emissions Data			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)			
Nitrogen Oxides (NO _X)			
Lead (Pb)			
Particulate Matter (PM _{2.5})	0.22	0.98	
Particulate Matter (PM ₁₀)	0.22	0.98	
Total Particulate Matter (TSP)	0.22	0.98	
Sulfur Dioxide (SO ₂)			
Volatile Organic Compounds (VOC)			
Hazardous Air Pollutants	Potent	tial Emissions	
	PPH	TPY	
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP	PPH	TPY	
List the method(s) used to calculate the p versions of software used, source and da		ites of any stack tests conducted,	
Emissions based upon (4) separate co cfm, and 8760 hours of operation.	llectors, each with outlet grain	n loading of 0.01 gr/cf, flow rate of 655	

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit anguirements for LID 4
There are no emissions unit-specific requirements for UR-1
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number
or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
or citation. (Note: Each requirement listed above must have an associated method of demonstrating
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or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

ATTACHMENT E - Emission Unit Form Emission Unit Description List any control devices associated **Emission unit ID number: Emission unit name:** with this emission unit: UR-2 UR-2 Dust Collectors 32c, 33c Provide a description of the emission unit (type, method of operation, design parameters, etc.): Two (2) Urea Hoppers (handling 16 TPH each of dry pelletized urea), each venting to a dust collector. **Model number:** Serial number: Manufacturer: **Construction date: Installation date: Modification date(s):** 1994 1994 n/a Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 9,000 cubic feet. **Maximum Hourly Throughput: Maximum Operating Schedule: Maximum Annual Throughput:** 16 tons urea (each) 140,160 tons urea (each) 8760 hours Fuel Usage Data (fill out all applicable fields) **Does this emission unit combust fuel?** Yes X No If yes, is it? Indirect Fired ____Direct Fired Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners: List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. Describe each fuel expected to be used during the term of the permit. Max. Ash Content BTU Value Fuel Type Max. Sulfur Content

Emissions Data Criteria Pollutants		
	Potential Emissions	
- Internal Conditions	PPH	TPY
Carbon Monoxide (CO)		11.1
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.11	0.49
Particulate Matter (PM ₁₀)	0.11	0.49
Total Particulate Matter (TSP)	0.11	0.49
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potentia	al Emissions
	РРН	TPY
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	РРН	TPY
List the method(s) used to calculate the versions of software used, source and		es of any stack tests conducted,

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There are no emissions unit-specific requirements for UR-2
X_ Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
There are no emissions unit-specific testing, recordkeeping, reporting requirements for UR-2
There are no emissions unit-specific testing, recordkeeping, reporting requirements for UR-2
There are no emissions unit-specific testing, recordkeeping, reporting requirements for UR-2
There are no emissions unit-specific testing, recordkeeping, reporting requirements for UR-2
There are no emissions unit-specific testing, recordkeeping, reporting requirements for UR-2 Are you in compliance with all applicable requirements for this emission unit? _X_YesNo

Attachment G Air Pollution Control Device Forms

ATTACHMENT G - Air Pollution Control Device Form			
Control device ID numbers: 6ca, 6cb, 6cc	List all emission units associated with this control device. LRCH, 6si, 6sj		
Manufacturer:	Model number:	Installation date: 1994	
Type of Air Pollution Control Device:			
X Baghouse/Fabric Filter	Venturi Scrubber	Multiclone	
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone	
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank	
Catalytic Incinerator	Condenser	Settling Chamber	
Thermal Incinerator	Flare	Other (describe)	
Wet Plate Electrostatic Precipitator		Dry Plate Electrostatic Precipitator	
List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.	
Pollutant	Capture Efficiency	Control Efficiency	
Particulate	100%	99+%	
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). This baghouse is a 175,000 CFM fabric filter baghouse designed with a grain loading of 0.003 gr/scf.			
Is this device subject to the CAM requirements of 40 C.F.R. 64? YesX No			
If Yes, Complete ATTACHMENT H If No, Provide justification. Pre-control emissions do not exceed Title V major source threshold.			
Describe the parameters monitored and/or methods used to indicate performance of this control device.			
Emission Inspection: Inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs.			

ATTACHMENT G - Air Pollution Control Device Form			
Control device ID number: 6cd	List all emission units associated with this control device. LRCH		
Manufacturer:	Model number:	Installation date: 1994	
Type of Air Pollution Control Device:			
X Baghouse/Fabric Filter	Venturi Scrubber	Multiclone	
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone	
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank	
Catalytic Incinerator	Condenser	Settling Chamber	
Thermal Incinerator	Flare	Other (describe)	
Wet Plate Electrostatic Precipitator		Dry Plate Electrostatic Precipitator	
List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.	
Pollutant	Capture Efficiency	Control Efficiency	
Particulate	100%	85%	
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). This dust collector is a 947 CFM vacuum system designed with a grain loading of 0.18 gr/scf.			
Is this device subject to the CAM requirements of 40 C.F.R. 64? YesX_ No			
If Yes, Complete ATTACHMENT H If No, Provide justification. Pre-control emissions do not exceed Title V major source threshold.			
Describe the parameters monitored and/or methods used to indicate performance of this control device.			
Emission Inspection: Inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs.			

ATTACHMENT G - Air Pollution Control Device Form			
Control device ID number: 8c	List all emission units associated with this control device. 8sa, 8sb, 8sg, 8sh		
Manufacturer:	Model number:	Installation date: 1994	
Type of Air Pollution Control Device:			
X Baghouse/Fabric Filter	Venturi Scrubber	Multiclone	
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone	
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank	
Catalytic Incinerator	Condenser	Settling Chamber	
Thermal Incinerator	Flare	Other (describe)	
Wet Plate Electrostatic Precipitator		Dry Plate Electrostatic Precipitator	
List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.	
Pollutant	Capture Efficiency	Control Efficiency	
Particulate	100%	99+%	
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). This baghouse is a 28,000 CFM fabric filter baghouse designed with a grain loading of 0.003 gr/scf.			
Is this device subject to the CAM requ	irements of 40 C.F.R. 64? Ye	s <u>X</u> No	
If Yes, Complete ATTACHMENT H If No, Provide justification. Pre-control emissions do not exceed Title V major source threshold.			
Describe the parameters monitored and/or methods used to indicate performance of this control device.			
Emission Inspection: Inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs.			

ATTACHMEN	NT G - Air Pollution Control	Device Form
Control device ID numbers: 9c, 10c	List all emission units associated with this control device. 13, 14, 9va, 10va	
Manufacturer:	Model number:	Installation date: 1994
Type of Air Pollution Control Device:		
X Baghouse/Fabric Filter	Venturi Scrubber	Multiclone
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank
Catalytic Incinerator	Condenser	Settling Chamber
Thermal Incinerator	Flare	Other (describe)
Wet Plate Electrostatic Precipitator		Dry Plate Electrostatic Precipitator
List the pollutants for which this device	ce is intended to control and the ca	apture and control efficiencies.
Pollutant	Capture Efficiency	Control Efficiency
Particulate	100%	99+%
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). These are 10,000 CFM fabric filters designed as part of a pneumatic conveyor system with an outlet		
grain loading of 0.003 gr/scf.		
Is this device subject to the CAM requ	irements of 40 C.F.R. 64? Ye	es <u>X</u> No
If Yes, Complete ATTACHMENT H		
If No, Provide justification. The fabric filter is an inherent part of the pneumatic conveying process equipment.		
Describe the parameters monitored and/or methods used to indicate performance of this control device.		
Emission Inspection: Inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs.		

ATTACHMEN	ATTACHMENT G - Air Pollution Control Device Form		
Control device ID numbers: 11c, 12c	List all emission units associated with this control device. 37, 38, 11va, 12va		
Manufacturer:	Model number:	Installation date: 1994	
Type of Air Pollution Control Device:			
X Baghouse/Fabric Filter	Venturi Scrubber1	Multiclone	
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone	
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank	
Catalytic Incinerator	Condenser	Settling Chamber	
Thermal Incinerator	Flare	Other (describe)	
Wet Plate Electrostatic Precipitator	1	Dry Plate Electrostatic Precipitator	
List the pollutants for which this device	e is intended to control and the ca	pture and control efficiencies.	
Pollutant	Capture Efficiency	Control Efficiency	
Particulate	100%	99+%	
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). These are 2,100 CFM fabric filters designed as part of a pneumatic conveyor system with an outlet grain loading of 0.003 gr/scf.			
Is this device subject to the CAM requirements of 40 C.F.R. 64? YesX_ No			
If Yes, Complete ATTACHMENT H If No, Provide justification. The fabric filter is an inherent part of the pneumatic conveying process equipment.			
Describe the parameters monitored and/or methods used to indicate performance of this control device.			
Emission Inspection: Inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs.			

ATTACHMENT G - Air Pollution Control Device Form			
Control device ID numbers: 13c, 14c	List all emission units associated with this control device. 13s, 14s, 13v, 14v		
Manufacturer:	Model number:	Installation date: 1994	
Type of Air Pollution Control Device:			
X Baghouse/Fabric Filter	Venturi Scrubber	Multiclone	
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone	
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank	
Catalytic Incinerator	Condenser	Settling Chamber	
Thermal Incinerator	Flare	Other (describe)	
Wet Plate Electrostatic Precipitator		Dry Plate Electrostatic Precipitator	
List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.	
Pollutant	Capture Efficiency	Control Efficiency	
Particulate	100%	99+%	
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). These control devices are 600 CFM fabric filters designed with an outlet grain loading of 0.003 gr/scf.			
Is this device subject to the CAM requ	irements of 40 C.F.R. 64? Ye	s <u>X</u> No	
If Yes, Complete ATTACHMENT H If No, Provide justification. Pre-control emissions do not exceed Title V major source threshold.			
Describe the parameters monitored and/or methods used to indicate performance of this control device.			
Emission Inspection: Inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs.			

ATTACHMEN	NT G - Air Pollution Control	Device Form	
Control device ID numbers: 15c, 16c, 17c	List all emission units associated with this control device. 15va, 16va, 17va, 15vb, 16vb, 17vb, 33, 34, 35		
Manufacturer:	Model number:	Installation date: 1994	
Type of Air Pollution Control Device:			
X Baghouse/Fabric Filter	Venturi Scrubber	Multiclone	
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone	
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank	
Catalytic Incinerator	Condenser	Settling Chamber	
Thermal Incinerator	Flare	Other (describe)	
Wet Plate Electrostatic Precipitator		Dry Plate Electrostatic Precipitator	
List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.	
Pollutant	Capture Efficiency	Control Efficiency	
Particulate	100%	99+%	
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).			
These are 2,700 CFM fabric filters designed as part of a pneumatic conveyor system with an outlet grain loading of 0.003 gr/scf.			
Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes _X_ No			
If Yes, Complete ATTACHMENT H If No, Provide justification. The fabric filter is an inherent part of the pneumatic conveying process equipment.			
Describe the parameters monitored an	Describe the parameters monitored and/or methods used to indicate performance of this control device.		
Emission Inspection: Inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs.			

ATTACHMEN	NT G - Air Pollution Control	Device Form
Control device ID numbers: 18c, 19c, 20c	List all emission units associated with this control device. 18va, 19va, 20va, 18vb, 19vb, 20vb, 21, 22, 23	
Manufacturer:	Model number:	Installation date: 1994
Type of Air Pollution Control Device:		
X Baghouse/Fabric Filter	Venturi Scrubber	Multiclone
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank
Catalytic Incinerator	Condenser	Settling Chamber
Thermal Incinerator	Flare	Other (describe)
Wet Plate Electrostatic Precipitator	;	Dry Plate Electrostatic Precipitator
List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.
Pollutant	Capture Efficiency	Control Efficiency
Particulate	100%	99+%
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). These are 6,400 CFM fabric filters designed as part of a pneumatic conveyor system with an outlet grain loading of 0.003 gr/scf.		
Is this device subject to the CAM requ	irements of 40 C.F.R. 64? Ye	s <u>X</u> No
If Yes, Complete ATTACHMENT H		
If No, Provide justification. The fabric filter is an inherent part of the pneumatic conveying process equipment.		
Describe the parameters monitored and/or methods used to indicate performance of this control device.		
Emission Inspection: Inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs.		

ATTACHMENT G - Air Pollution Control Device Form			
Control device ID numbers: 21c, 22c, 23c	List all emission units associated with this control device. 21va, 22va, 23va, 21vb, 22vb, 23vb, 21vc, 22vc, 23vc, 21vd, 22vd, 23vd, 21s, 22s, 23s		
Manufacturer:	Model number:	Installation date: 1994	
Type of Air Pollution Control Device:			
Baghouse/Fabric Filter	Venturi Scrubber	Multiclone	
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone	
Carbon Drum(s)X_	Other Wet Scrubber	Cyclone Bank	
Catalytic Incinerator	Condenser	Settling Chamber	
Thermal Incinerator	Flare	Other (describe)	
Wet Plate Electrostatic Precipitator		Dry Plate Electrostatic Precipitator	
List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.	
Pollutant	Capture Efficiency	Control Efficiency	
Particulate	100%	90%	
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). These wet scrubbers are designed with a 2,000 CFM outlet with a grain loading of 0.03 gr/scf.			
Is this device subject to the CAM requ	irements of 40 C.F.R. 64? Ye	s <u>X</u> No	
If Yes, Complete ATTACHMENT H If No, Provide justification. Pre-control emissions do not exceed Title V major source threshold.			
Describe the parameters monitored and/or methods used to indicate performance of this control device.			
Emission Inspection: Inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs.			

ATTACHMENT G - Air Pollution Control Device Form			
Control device ID numbers: 24c, 25c, 26c, 27c	List all emission units associated with this control device. 24v, 25v, 26v, 27v, 24s, 25s, 26s, 27s		
Manufacturer:	Model number:	Installation date: 1994	
Type of Air Pollution Control Device:			
Baghouse/Fabric Filter	Venturi Scrubber	Multiclone	
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone	
Carbon Drum(s)X_	Other Wet Scrubber	Cyclone Bank	
Catalytic Incinerator	Condenser	Settling Chamber	
Thermal Incinerator	Flare	Other (describe)	
Wet Plate Electrostatic Precipitator		Dry Plate Electrostatic Precipitator	
List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.	
Pollutant	Capture Efficiency	Control Efficiency	
Particulate	100%	90%	
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). These wet scrubbers are designed with a 1,000 CFM outlet with a grain loading of 0.009 gr/scf.			
Is this device subject to the CAM requ	irements of 40 C.F.R. 64? Ye	s <u>X</u> No	
If Yes, Complete ATTACHMENT H If No, Provide justification. Pre-control emissions do not exceed Title V major source threshold.			
Describe the parameters monitored and/or methods used to indicate performance of this control device.			
Emission Inspection: Inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs.			

ATTACHMENT G - Air Pollution Control Device Form			
Control device ID number: FGD-1	List all emission units associated with this control device. STACK1		
Manufacturer:	Model number:	Installation date: 1994	
Type of Air Pollution Control Device:			
Baghouse/Fabric Filter	Venturi Scrubber	Multiclone	
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone	
Carbon Drum(s) _X_	Other Wet Scrubber	Cyclone Bank	
Catalytic Incinerator	Condenser	Settling Chamber	
Thermal Incinerator	Flare	Other (describe)	
Wet Plate Electrostatic Precipitator		Dry Plate Electrostatic Precipitator	
List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.	
Pollutant	Capture Efficiency	Control Efficiency	
SO ₂	100%	95%	
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). The FGD Wet Scrubbing System has a scrubbing agent flow rate of 105,000 gpm at 2.26x10 ⁶ ACFM.			
Is this device subject to the CAM requ	irements of 40 C.F.R. 64? Ye	s <u>X</u> No	
If Yes, Complete ATTACHMENT H If No, Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure SO ₂ emissions in the exhaust flow and demonstrate continuous compliance.			
Describe the parameters monitored and/or methods used to indicate performance of this control device. The monitoring of SO ₂ emission in the exhaust stream with the certified CEM is the primary method used to indicate the control device is operating properly.			

ATTACHMENT G - Air Pollution Control Device Form		
Control device ID number: FGD-2	List all emission units associated with this control device. STACK2	
Manufacturer:	Model number:	Installation date:
		1995
Type of Air Pollution Control Device:		
Baghouse/Fabric Filter	Venturi Scrubber	Multiclone
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone
Carbon Drum(s)X_	Other Wet Scrubber	Cyclone Bank
Catalytic Incinerator	Condenser	Settling Chamber
Thermal Incinerator	Flare	Other (describe)
Wet Plate Electrostatic Precipitator		Dry Plate Electrostatic Precipitator
List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.
Pollutant	Capture Efficiency	Control Efficiency
SO ₂	100%	95%
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).		
The FGD Wet Scrubbing System has a scrubbing agent flow rate of 105,000 gpm at 2.26x10 ⁶ ACFM.		
Is this device subject to the CAM requ	irements of 40 C.F.R. 64? Ye	s <u>X</u> No
If Yes, Complete ATTACHMENT H		
If N_0 , Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure SO_2 emissions in the exhaust flow and demonstrate continuous compliance.		
Describe the parameters monitored an	nd/or methods used to indicate per	formance of this control device.
The monitoring of SO₂ emission in the exhaust stream with the certified CEM is the primary method used to indicate the control device is operating properly.		

Control device ID number: FGD-3 List all emission units associated with this control device. STACK3	ATTACHMEN	NT G - Air Pollution Control	Device Form	
Type of Air Pollution Control Device: Baghouse/Fabric Filter Venturi Scrubber Multiclone Carbon Bed Adsorber Packed Tower Scrubber Single Cyclone Carbon Drum(s) X Other Wet Scrubber Settling Chamber Carbon Drum(s) X Other Wet Scrubber Settling Chamber Thermal Incinerator Condenser Settling Chamber Thermal Incinerator Flare Other (describe) Wet Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator List the pollutants for which this device is intended to control and the capture and control efficiencies. Pollutant Capture Efficiency Control Efficiency SO_2 100% 95% Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). The FGD Wet Scrubbing System has a scrubbing agent flow rate of 105,000 gpm at 2.26x10 ⁶ ACFM. Is this device subject to the CAM requirements of 40 C.F.R. 64? YesX No If Yes, Complete ATTACHMENT H If No, Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure SO_2 emissions in the exhaust flow and demonstrate continuous compliance. The monitoring of SO_2 emission in the exhaust stream with the certified CEM is the primary method				
Baghouse/Fabric Filter	Manufacturer:	Model number:		
Carbon Bed AdsorberPacked Tower Scrubber Single Cyclone Carbon Drum(s)X_ Other Wet Scrubber Cyclone Bank Catalytic Incinerator Condenser Settling Chamber Thermal Incinerator Flare Other (describe)	Type of Air Pollution Control Device:			
Carbon Drum(s) Condenser Settling Chamber Thermal Incinerator Flare Other (describe) Dry Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator	Baghouse/Fabric Filter	Venturi Scrubber	Multiclone	
Catalytic IncineratorCondenserSettling ChamberThermal IncineratorFlareOther (describe)	Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone	
Thermal IncineratorFlareOther (describe)	Carbon Drum(s)X_	Other Wet Scrubber	Cyclone Bank	
List the pollutants for which this device is intended to control and the capture and control efficiencies. Pollutant Capture Efficiency Control Efficiency SO2 100% 95% Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). The FGD Wet Scrubbing System has a scrubbing agent flow rate of 105,000 gpm at 2.26x10 ⁶ ACFM. Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes _X_ No If Yes, Complete ATTACHMENT H If No, Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure SO2 emissions in the exhaust flow and demonstrate continuous compliance. Describe the parameters monitored and/or methods used to indicate performance of this control device.	Catalytic Incinerator	Condenser	Settling Chamber	
List the pollutants for which this device is intended to control and the capture and control efficiencies. Pollutant Capture Efficiency SO2 100% 95% Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). The FGD Wet Scrubbing System has a scrubbing agent flow rate of 105,000 gpm at 2.26x106 ACFM. Is this device subject to the CAM requirements of 40 C.F.R. 64?YesX_No If Yes, Complete ATTACHMENT H If No, Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure SO2 emissions in the exhaust flow and demonstrate continuous compliance. Describe the parameters monitored and/or methods used to indicate performance of this control device.	Thermal Incinerator	Flare	Other (describe)	
Pollutant Capture Efficiency SO2 100% 95% Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). The FGD Wet Scrubbing System has a scrubbing agent flow rate of 105,000 gpm at 2.26x10 ⁶ ACFM. Is this device subject to the CAM requirements of 40 C.F.R. 64? YesX No If Yes, Complete ATTACHMENT H If No, Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure SO2 emissions in the exhaust flow and demonstrate continuous compliance. Describe the parameters monitored and/or methods used to indicate performance of this control device. The monitoring of SO2 emission in the exhaust stream with the certified CEM is the primary method	Wet Plate Electrostatic Precipitator	Wet Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator		
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). The FGD Wet Scrubbing System has a scrubbing agent flow rate of 105,000 gpm at 2.26x10 ⁶ ACFM. Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes _X_ No If Yes, Complete ATTACHMENT H If No, Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure SO ₂ emissions in the exhaust flow and demonstrate continuous compliance. Describe the parameters monitored and/or methods used to indicate performance of this control device. The monitoring of SO ₂ emission in the exhaust stream with the certified CEM is the primary method	List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.	
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). The FGD Wet Scrubbing System has a scrubbing agent flow rate of 105,000 gpm at 2.26x10 ⁶ ACFM. Is this device subject to the CAM requirements of 40 C.F.R. 64? YesX_ No If Yes, Complete ATTACHMENT H If No, Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure SO ₂ emissions in the exhaust flow and demonstrate continuous compliance. Describe the parameters monitored and/or methods used to indicate performance of this control device.	Pollutant	Capture Efficiency	Control Efficiency	
The FGD Wet Scrubbing System has a scrubbing agent flow rate of 105,000 gpm at 2.26x10 ⁶ ACFM. Is this device subject to the CAM requirements of 40 C.F.R. 64? YesX_ No If Yes, Complete ATTACHMENT H If No, Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure SO ₂ emissions in the exhaust flow and demonstrate continuous compliance. Describe the parameters monitored and/or methods used to indicate performance of this control device. The monitoring of SO ₂ emission in the exhaust stream with the certified CEM is the primary method	SO ₂	100%	95%	
The FGD Wet Scrubbing System has a scrubbing agent flow rate of 105,000 gpm at 2.26x10 ⁶ ACFM. Is this device subject to the CAM requirements of 40 C.F.R. 64? YesX_ No If Yes, Complete ATTACHMENT H If No, Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure SO ₂ emissions in the exhaust flow and demonstrate continuous compliance. Describe the parameters monitored and/or methods used to indicate performance of this control device. The monitoring of SO ₂ emission in the exhaust stream with the certified CEM is the primary method				
The FGD Wet Scrubbing System has a scrubbing agent flow rate of 105,000 gpm at 2.26x10 ⁶ ACFM. Is this device subject to the CAM requirements of 40 C.F.R. 64? YesX_ No If Yes, Complete ATTACHMENT H If No, Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure SO ₂ emissions in the exhaust flow and demonstrate continuous compliance. Describe the parameters monitored and/or methods used to indicate performance of this control device. The monitoring of SO ₂ emission in the exhaust stream with the certified CEM is the primary method				
If Yes, Complete ATTACHMENT H If No, Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure SO ₂ emissions in the exhaust flow and demonstrate continuous compliance. Describe the parameters monitored and/or methods used to indicate performance of this control device. The monitoring of SO ₂ emission in the exhaust stream with the certified CEM is the primary method	bags, size, temperatures, etc.).			
If No, Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure SO ₂ emissions in the exhaust flow and demonstrate continuous compliance. Describe the parameters monitored and/or methods used to indicate performance of this control device. The monitoring of SO ₂ emission in the exhaust stream with the certified CEM is the primary method	Is this device subject to the CAM requ	irements of 40 C.F.R. 64? Ye	s <u>X</u> No	
The monitoring of SO ₂ emission in the exhaust stream with the certified CEM is the primary method	If N_0 , Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure SO_2			

ATTACHMENT G - Air Pollution Control Device Form			
Control device ID number: ESP-1	List all emission units associated with this control device. STACK1		
Manufacturer: American Standard	Model number: S.O.7-61475	Installation date:1972	
Type of Air Pollution Control Device:			
Baghouse/Fabric Filter	Venturi Scrubber I	Multiclone	
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone	
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank	
Catalytic Incinerator	Condenser S	Settling Chamber	
Thermal Incinerator	Flare	Other (describe)	
Wet Plate Electrostatic Precipitator	<u>X</u> _	Dry Plate Electrostatic Precipitator	
List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.	
Pollutant	Capture Efficiency	Control Efficiency	
Particulate	100%	93%	
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).			
This Electrostatic Precipitator has a collection plate area of 374,400 square feet, designed for flow capacity of 2.079x10 ⁶ ACFM.			
Is this device subject to the CAM requ	irements of 40 C.F.R. 64? X Ye	esNo	
If Yes, Complete ATTACHMENT H			
If No, Provide justification.			
Describe the parameters monitored and/or methods used to indicate performance of this control device. Primary and secondary voltage and current, secondary power and spark rate for each of the fields is monitored and logged in an electronic data acquisition system. In addition, total secondary power level for the entire ESP is also calculated and logged.			

ATTACHMENT G - Air Pollution Control Device Form			
Control device ID number: ESP-2	List all emission units associated with this control device. STACK2		
Manufacturer:	Model number:	Installation date:1973	
American Standard	S.O.7-61475		
Type of Air Pollution Control Device:			
Baghouse/Fabric Filter Venturi Scrubber Multiclone			
Carbon Bed Adsorber	Carbon Bed Adsorber Packed Tower Scrubber Single Cyclone		
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank	
Catalytic Incinerator	Condenser	Settling Chamber	
Thermal Incinerator	Flare	Other (describe)	
Wet Plate Electrostatic Precipitator	<u>X</u> _	Dry Plate Electrostatic Precipitator	
List the pollutants for which this device is intended to control and the capture and control efficiencies.			
Pollutant	Capture Efficiency	Control Efficiency	
Particulate	100%	93%	
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).			
This Electrostatic Precipitator has a collection plate area of 374,400 square feet, designed for flow capacity of 2.079x10 ⁶ ACFM.			
Is this device subject to the CAM requirements of 40 C.F.R. 64? _X_ Yes No			
If Yes, Complete ATTACHMENT H			
If No, Provide justification.			
Describe the parameters monitored and/or methods used to indicate performance of this control device.			
Primary and secondary voltage and current, secondary power and spark rate for each of the fields is monitored and logged in an electronic data acquisition system. In addition, total secondary power level for the entire ESP is also calculated and logged.			

ATTACHMENT G - Air Pollution Control Device Form			
Control device ID number: ESP-3	List all emission units associated with this control device. STACK3		
Manufacturer: American Standard	Model number: S.O.7-61475	Installation date:1974	
Type of Air Pollution Control Device:			
Baghouse/Fabric Filter	Venturi Scrubber	Multiclone	
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone	
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank	
Catalytic Incinerator	Condenser	Settling Chamber	
Thermal Incinerator	Flare	Other (describe)	
Wet Plate Electrostatic Precipitator	<u>X</u>	Dry Plate Electrostatic Precipitator	
List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.	
Pollutant	Capture Efficiency	Control Efficiency	
Particulate	100%	93%	
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).			
This Electrostatic Precipitator has a collection plate area of 374,400 square feet, designed for flow capacity of 2.079x10 ⁶ ACFM.			
Is this device subject to the CAM requirements of 40 C.F.R. 64? _X_ Yes No			
If Yes, Complete ATTACHMENT H			
If No, Provide justification. Describe the parameters monitored and/or methods used to indicate performance of this control device.			
Primary and secondary voltage and current, secondary power and spark rate for each of the fields is monitored and logged in an electronic data acquisition system. In addition, total secondary power level for the entire ESP is also calculated and logged.			

ATTACHMENT G - Air Pollution Control Device Form		
Control device ID number: SCR-1	List all emission units associated with this control device. STACK1	
Manufacturer: Haldor Topsoe	Model number:	Installation date: 2003
Type of Air Pollution Control Device:		
Baghouse/Fabric Filter	Venturi Scrubber	Multiclone
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank
Catalytic Incinerator	Condenser	Settling Chamber
Thermal Incinerator		Other (describe) <u>Selective</u>
Wet Plate Electrostatic Precipitator	_	Dry Plate Electrostatic Precipitator
List the pollutants for which this device	ce is intended to control and the c	apture and control efficiencies.
Pollutant	Capture Efficiency	Control Efficiency
NOx	100%	82%
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).		
Is this device subject to the CAM requirements of 40 C.F.R. 64? YesX_ No		
If Yes, Complete ATTACHMENT H		
If No, Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure SO ₂ emissions in the exhaust flow and demonstrate continuous compliance		

Describe the parameters monitored and/or methods used to indicate performance of this control device.			
The monitoring of NOx emissions in the exhaust stream with the certified CEM is the primary method used to indicate the control device is operating properly.			
ATTACHMEN	NT G - Air Pollution Control	Device Form	
Control device ID number: SCR-2	List all emission units associated with this control device. STACK2		
Manufacturer: Haldor Topsoe	Model number:	Installation date: 2003	
Type of Air Pollution Control Device:			
Baghouse/Fabric Filter	Venturi Scrubber	Multiclone	
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone	
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank	
Catalytic Incinerator	Condenser	Settling Chamber	
Thermal Incinerator		Other (describe) <u>Selective</u> atalytic Reduction (SCR)	
Wet Plate Electrostatic Precipitator		Dry Plate Electrostatic Precipitator	
List the pollutants for which this device	ce is intended to control and the ca	apture and control efficiencies.	
Pollutant	Capture Efficiency	Control Efficiency	
NOx	100%	82%	
Explain the characteristic design para bags, size, temperatures, etc.).	meters of this control device (flow	rates, pressure drops, number of	

Is this device subject to the CAM requirements of 40 C.F.R. 64? X_Yes X_No			
If Yes, Complete ATTACHMENT H			
If No, Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure SO ₂ emissions in the exhaust flow and demonstrate continuous compliance.			
Describe the parameters monitored ar	nd/or methods used to indicate per	formance of this control device.	
The monitoring of NOx emissions in the exhaust stream with the certified CEM is the primary method used to indicate the control device is operating properly.			
ATTACHMEN	NT G - Air Pollution Control	Device Form	
Control device ID number: SCR-3	List all emission units associated with this control device. STACK3		
Manufacturer: Haldor Topsoe	Model number:	Installation date: 2003	
Type of Air Pollution Control Device:			
Baghouse/Fabric Filter	Venturi Scrubber	Multiclone	
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone	
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank	
Catalytic Incinerator	Condenser	Settling Chamber	
Thermal Incinerator		Other (describe) <u>Selective</u> talytic Reduction (SCR)	
Wet Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator			
List the pollutants for which this device is intended to control and the capture and control efficiencies.			
Pollutant	Capture Efficiency	Control Efficiency	
NOx	100%	82%	

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes _X_ No
If Yes, Complete ATTACHMENT H
If No, Provide justification. Device is exempt from 40 CFR 64 CAM requirements because it is utilized to comply with the Acid Rain Program Requirements. In addition, a certified CEM is used to measure NOx emissions in the exhaust flow and demonstrate continuous compliance.
Describe the parameters monitored and/or methods used to indicate performance of this control device.
The monitoring of NOx emissions in the exhaust stream with the certified CEM is the primary method used to indicate the control device is operating properly.

ATTACHMENT G - Air Pollution Control Device Form			
Control device ID number: 28c, 29c, 30c, 31c	List all emission units associated with this control device. UR-1		
Manufacturer:	Model number:	Installation date: 1994	
Type of Air Pollution Control Device:			
X Baghouse/Fabric Filter	Venturi Scrubber	Multiclone	
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone	
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank	
Catalytic Incinerator	Condenser	Settling Chamber	
Thermal Incinerator	Flare	Other (describe)	
Wet Plate Electrostatic Precipitator	1	Dry Plate Electrostatic Precipitator	
List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.	
Pollutant	Capture Efficiency	Control Efficiency	
Particulate	100%	99%	
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). These dusts collector are 655 CFM bin vents designed with a grain loading of 0.01 gr/scf.			
Is this device subject to the CAM requ	nirements of 40 C.F.R. 64? Ye	s <u>X</u> No	
If Yes, Complete ATTACHMENT H If No, Provide justification. Pre-control emissions do not exceed Title V major source threshold.			
Describe the parameters monitored and/or methods used to indicate performance of this control device.			
Emission Inspection: Inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs.			

ATTACHMENT G - Air Pollution Control Device Form			
Control device ID number: 32c, 33c	List all emission units associated with this control device. UR-2		
Manufacturer:	Model number:	Installation date: 1994	
Type of Air Pollution Control Device:			
X Baghouse/Fabric Filter	Venturi Scrubber 1	Multiclone	
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone	
Carbon Drum(s)	Other Wet Scrubber	Cyclone Bank	
Catalytic Incinerator	Condenser S	Settling Chamber	
Thermal Incinerator	Flare	Other (describe)	
Wet Plate Electrostatic Precipitator	1	Dry Plate Electrostatic Precipitator	
List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.	
Pollutant	Capture Efficiency	Control Efficiency	
Particulate	100%	99%	
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.). These dusts collector are 655 CFM bin vents designed with a grain loading of 0.01 gr/scf.			
Is this device subject to the CAM required If Yes, Complete ATTACHMENT H	nirements of 40 C.F.R. 64? Ye	s <u>X</u> No	
If No, Provide justification. Pre-control emissions do not exceed Title V major source threshold.			
Describe the parameters monitored and/or methods used to indicate performance of this control device.			
Emission Inspection: Inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs.			

ATTACHMENT G - Air Pollution Control Device Form		
Control device ID number: 28c, 29c, 30c, 31c	List all emission units associated with this control device. UR-1	
Manufacturer:	Model number:	Installation date:
		1994
Type of Air Pollution Control Device:		
X Baghouse/Fabric Filter	Venturi Scrubber	Multiclone
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone
Carbon Drum(s)	Other: Wet Scrubber	Cyclone Bank
Catalytic Incinerator	Condenser	Settling Chamber
Thermal Incinerator	Flare	Other (describe)
Wet Plate Electrostatic Precipitator		Dry Plate Electrostatic Precipitator
List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.
Pollutant	Capture Efficiency	Control Efficiency
Particulate	100%	99%
Explain the characteristic design para bags, size, temperatures, etc.).	meters of this control device (flow	rates, pressure drops, number of
These dusts collector are 655 (CFM bin vents designed with a gi	rain loading of 0.01 gr/scf.
Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No		
If Yes, Complete ATTACHMENT H		<u> </u>
If No, Provide justification. Pre-control emissions do not exceed Title V major source threshold.		
Describe the parameters monitored and/or methods used to indicate performance of this control device.		
Describe the parameters monitored and/or methods used to indicate performance of this control device.		
Emission Inspection: Inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs.		

ATTACHMENT G - Air Pollution Control Device Form		
Control device ID number: 32c, 33c	List all emission units associated with this control device. UR-2	
Manufacturer:	Model number:	Installation date: 1994
Type of Air Pollution Control Device:		
X Baghouse/Fabric Filter	Venturi Scrubber	Multiclone
Carbon Bed Adsorber	Packed Tower Scrubber	Single Cyclone
Carbon Drum(s)	Other: Wet Scrubber	Cyclone Bank
Catalytic Incinerator	Condenser	Settling Chamber
Thermal Incinerator	Flare	Other (describe)
Wet Plate Electrostatic Precipitator Dry Plate Electrostatic Precipitator		
List the pollutants for which this device	ce is intended to control and the ca	pture and control efficiencies.
Pollutant	Capture Efficiency	Control Efficiency
Particulate	100%	99%
Explain the characteristic design para bags, size, temperatures, etc.).	meters of this control device (flow	rates, pressure drops, number of
These dusts collector are 655 CFM b	oin vents designed with a grain lo	ading of 0.01 gr/scf.
Is this device subject to the CAM rear	uirements of 40 C.F.R. 64? Ye	s No
Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes No If Yes, Complete ATTACHMENT H		
If No, Provide justification. Pre-control emissions do not exceed Title V major source threshold.		
Describe the parameters monitored and/or methods used to indicate performance of this control device.		
Emission Inspection: Inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs.		