

Bayer CropScience



William F. Durham
WV Department of Environmental Protection
Division of Air Quality
601 57th Street, SE
Charleston, West Virginia 25304

HAND DELIVERED

WV DEP Offices
May 1, 2015

May 1, 2015

Bayer CropScience
Institute Site
P. O. Box 1005
Charleston, WV 25112

*Re: Bayer CropScience, Institute, West Virginia
Group 1 Title V Permit Renewal*

Tel. 304 767 6306
Fax 304 767 6294

Dear Mr. Durham,

Enclosed are two CD copies of the Bayer CropScience Title V Group 1 permit renewal.

If you have any questions concerning this update, please contact Linda Tennant at (304) 767-6161 or linda.tennant@bayer.com.

Sincerely,

James H. Covington
Vice President
Bayer CropScience

Enclosures

TITLE V PERMIT APPLICATION CHECKLIST FOR ADMINISTRATIVE COMPLETENESS

<p>A complete application is demonstrated when all of the information required below is properly prepared, completed and attached. The items listed below are required information which must be submitted with a Title V permit application. Any submittal will be considered incomplete if the required information is not included.*</p>	
<input checked="" type="checkbox"/>	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)
<input checked="" type="checkbox"/>	Correct number of copies of the application on separate CDs or diskettes, (i.e. at least one disc per copy)
<input checked="" type="checkbox"/>	*Table of Contents (needs to be included but not for administrative completeness)
<input checked="" type="checkbox"/>	Facility information
<input checked="" type="checkbox"/>	Description of process and products, including NAICS and SIC codes, and including alternative operating scenarios
<input checked="" type="checkbox"/>	Area map showing plant location
<input checked="" type="checkbox"/>	Plot plan showing buildings and process areas
<input checked="" type="checkbox"/>	Process flow diagram(s), showing all emission units, control equipment, emission points, and their relationships
<input checked="" type="checkbox"/>	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
<input checked="" type="checkbox"/>	Listing of all active permits and consent orders (if applicable)
<input checked="" type="checkbox"/>	Facility-wide emissions summary
<input checked="" type="checkbox"/>	Identification of Insignificant Activities
<input checked="" type="checkbox"/>	ATTACHMENT D - Title V Equipment Table completed for all emission units at the facility except those designated as insignificant activities
<input checked="" type="checkbox"/>	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
<input checked="" type="checkbox"/>	ATTACHMENT G - Air Pollution Control Device Form completed for each control device listed in the Title V Equipment Table (ATTACHMENT D)
<input checked="" type="checkbox"/>	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)
<input checked="" type="checkbox"/>	General Application Forms signed by a Responsible Official
<input type="checkbox"/>	Confidential Information submitted in accordance with 45CSR31

**WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION
CERTIFICATE**

ISSUED TO:
**BAYER CROPSCIENCE LP
2 TW ALEXANDER DR
RESEARCH TRIANGLE PARK, NC 27709-0000**

BUSINESS REGISTRATION ACCOUNT NUMBER: **1048-6631**

This certificate is issued on: **10/11/2011**

*This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code*

*The person or organization identified on this certificate is registered
to conduct business in the State of West Virginia at the location above.*

This certificate is not transferrable and must be displayed at the location for which issued.

This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

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

www.wvdep.org/daq

TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

Form containing sections 1-10: Name of Applicant, Facility Name, DAQ Plant ID, Federal Employer ID, Permit Application Type, Type of Business Entity, Is the Applicant the Owner/Operator, Number of onsite employees, Governmental Code, and Business Confidentiality Claims.

11. Mailing Address		
Street or P.O. Box: P.O. Box 1005		
City: InSTITUTE	State: WV	Zip: 25112 -
Telephone Number: (304) 767 -6000		Fax Number: (304) 767 - 6879

12. Facility Location		
Street: Route 25 (at I-64)	City: InSTITUTE	County: Kanawha
UTM Easting: 432.0 km	UTM Northing: 4,248.310 km	Zone: <input checked="" type="checkbox"/> 17 or <input type="checkbox"/> 18
Directions: Adjacent to Route 25, west of InSTITUTE, West Virginia		
Portable Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Is facility located within a nonattainment area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, for what air pollutants?	
Is facility located within 50 miles of another state? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, name the affected state(s). Kentucky Ohio	
Is facility located within 100 km of a Class I Area¹? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, name the area(s).	
If no, do emissions impact a Class I Area¹? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
¹ Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.		

13. Contact Information		
Responsible Official: James H. Covington		Title: VP Institute Site Operations
Street or P.O. Box: P.O. Box 1005		
City: Institute	State: WV	Zip: 25112 -
Telephone Number: (304) 767 -6306	Fax Number: (304) 767 -6294	
E-mail address: jim.covington@bayer.com		
Environmental Contact: Linda K Tennant		Title: Environmental Engineer
Street or P.O. Box: P.O. Box 1005		
City: Institute	State: WV	Zip: 25112 -
Telephone Number: (304) 767 - 6161	Fax Number: (304) 767 - 6621	
E-mail address: linda.tennant@bayer.com		
Application Preparer: Linda K Tennant		Title: Environmental Engineer
Company: Bayer CropScience		
Street or P.O. Box: P.O. Box 1005		
City: Institute	State: WV	Zip: 25112
Telephone Number: (304) 767-6161	Fax Number: (304) 767-6621	
E-mail address: Linda.tennant@bayer.com		

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
#2 Powerhouse	Steam, Power	325320	2879
WWTU	Waste Water Treatment	325320	2879
Maintenance	Maintenance Activities	325320	2879
Laboratory	Laboratory Analysis	325320	2879
Industrial Boilers	Steam, Power	325320	2879
Packaged Boilers	Steam, Power	325320	2879
Site Emergency Systems	Emergency Operations	325320	2879

Provide a general description of operations.

No. 2 Steam Plant Process Description

Three 250,000 lb/hr boilers operating at 1,000 psig were commissioned between the years of 1956 and 1963. The boilers (No. 10, 11 and 12) were designed to fire pulverized coal, fuel oil, and natural gas, to heat process water to produce steam. Two turbine generators, each capable of producing 6.25MW of electricity were installed simultaneously. The ESP's were installed in 1978 to control particulate emissions. These units are also equipped with NOx burners and CEM monitoring instrumentation and controls.

Two parallel pneumatic conveying lines transfer flyash from the No. 2 powerhouse boilers to the flyash silo D-910. The conveying lines are routed into baghouses (D-900 and 910) located on top of the flyash silo (D-910). Both baghouses have an efficiency of 99.89 percent.

Natural Gas Industrial Boilers Description

Packaged Boilers

Bayer installed two package units (Boilers 13 and 14) in January 2013. These units are used to provide supplemental steam on an as needed basis and to alleviate reliability concerns of the steam output from Power House No. 2. [A third package boiler (Boiler 15) was decommissioned and returned to the rental company on 3/31/2015].

Industrial Boilers

In 2016, Bayer will replace Power House No. 2 with two industrial natural gas boilers (Boiler Nos. 16 and 17). Boiler 18 may be installed at a later date as steam demand changes. These new boilers will be rated with a heat input of 350 MMBtu/hr for each unit and a steam output of 252,000 pounds per hour at 400 psi and 700⁰F. Each of these units will be fueled solely with natural gas and each one vented to a dedicated stack. Boiler Nos. 13, 14, 15 16, 17 and 18 are currently covered under Permit R13-3111B.

Waste Water Treatment Unit (WWTU) Process Description

Process wastewater is collected in a series of hubs, sewers, and sumps. The wastewater is pumped to the 1-million gallon equalization tank, which provides pH and TOC equalization, resulting in a more consistent feed to the aeration system. The pH is monitored and HCL or NaOH is added as a final pH adjustment before transfer to the aeration tanks. Spills to the process sewer or abnormally high TOC loads are diverted into the 1.5-million gallon emergency tank where the material is held until a determination is made on treatment.

From the equalization tank, the wastewater and Return Activated Sludge (RAS) is fed to two 3.5-million gallon aeration tanks where the wastewater is biologically treated. After aeration is completed, polymers are added to the treated wastewater to aid in solid settling in the three downstream secondary clarifiers. Clarified water is discharged from the clarifiers to the Kanawha River. Solids removed from the clarifiers are feed back to the equalization tank as RAS and to the sludge thickener. In the thickener, the solids are concentrated and then fed to the Digester where additional biological activity occurs to further reduce the solids. The Sludge Dewater Unit processes the solids from the Digester.

Goff Mountain Landfill

Pressed solids from the WWTU sludge dewatering unit are disposed of at the landfill.

Maintenance

The maintenance department performs activities related to the overall operation of the facility that generate minimal fugitive emissions.

Laboratory

The laboratory responsibility is to test raw materials, product in process and finished product as requested, and to test all products being shipped as necessary by established methods to determine conformance to established specifications. The laboratory also maintains professional standards of quality control, reports non-conformance when it occurs, and maintains records on reference samples and all products tested.

Emergency Systems

The site has backup generators to operate in the event of power losses, equipment failures or site emergencies. These systems include river water fire pumps, backup generator at Site Emergency Operations Center and waste water treatment process sewer pumps.

- 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."
- 17. Provide a detailed **Process Flow Diagram(s)** showing each process or emissions unit as **ATTACHMENT C**. Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

Section 2: Applicable Requirements

18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
<input type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input type="checkbox"/> PSD (45CSR14)
<input type="checkbox"/> NESHAP (45CSR15)	<input type="checkbox"/> Nonattainment NSR (45CSR19)
<input type="checkbox"/> Section 111 NSPS	<input checked="" type="checkbox"/> Section 112(d) MACT standards
<input type="checkbox"/> Section 112(g) Case-by-case MACT	<input type="checkbox"/> 112(r) RMP
<input type="checkbox"/> Section 112(i) Early reduction of HAP	<input type="checkbox"/> Consumer/commercial prod. reqts., section 183(e)
<input type="checkbox"/> Section 129 Standards/Reqts.	<input type="checkbox"/> Stratospheric ozone (Title VI)
<input type="checkbox"/> Tank vessel reqt., section 183(f)	<input type="checkbox"/> Emissions cap 45CSR§30-2.6.1
<input type="checkbox"/> NAAQS, increments or visibility (temp. sources)	<input type="checkbox"/> 45CSR27 State enforceable only rule
<input checked="" type="checkbox"/> 45CSR4 State enforceable only rule	<input type="checkbox"/> Acid Rain (Title IV, 45CSR33)
<input type="checkbox"/> Emissions Trading and Banking (45CSR28)	<input type="checkbox"/> Compliance Assurance Monitoring (40CFR64)
<input type="checkbox"/> NO _x Budget Trading Program Non-EGUs (45CSR1)	<input type="checkbox"/> NO _x Budget Trading Program EGUs (45CSR26)

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.

- SIP/FIP - Not a specifically listed facility under either plan.
- NESHAP (45CSR15) – Rule no longer effective.
- Section 111 NSPS – No NSPS standards are applicable.
- Section 112(g) Case-by-case MACT – No case-by-case MACT being requested.
- Section 112(i) - Early HAP reduction - Facilities did not utilize the early reduction program.
- Section 129 – Facilities do not own a solid waste incinerator.
- Section 183(f) - Any tank vessels per section 183(f) are not included.
- NAAQs – Facilities are a permanent source and not a contemporary source.
- 45CSR28 - No emissions are banked or traded per this regulation.
- 45CSR14 – Facility has no PSD permits.
- 45CSR19 – Renewal does not trigger thresholds. (Area is listed as attainment)
- 112(r) RMP – No longer listed as a RMP facility.
- Section 183 (e) – Facilities do not produce a 183(e) listed consumer or commercial product.
- Stratospheric ozone (Title VI) – Renewal does not involve any regulated pollutant.
- Emission Cap 45CSR section 30-2.6.1 – Facilities have no emission cap agreement per section 2.6.1.
- 45CSR27 – Facilities do not have TAP emissions.
- 45CSR33 – Facilities are not subject to the Acid Rain provisions listed in section 1.5.
- 40CFR64 – Monitoring requirements have already been established.
- 45CSR26 – Boilers are not defined nor subject to the EGU's NOx Budget Trading Program.

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).

Open Burning - 45CSR§6-3.1 and 3.2
Asbestos - 40CFR61 and 45CSR15
Odor - 45CSR§4-3.1 (State enforceable only)
Permanent Shutdown - 45CSR§13-10.5
Standby Plan for Reducing Emissions - 45CSR§11-5.2
Emission Inventory - WV Code § 22-5-4(a)(14)
Ozone-Depleting Substances - 40CFR82, Subpart F
NOx Budget Trading Program – 45CSR1
Facility Construction & Operation - 45CSR13, Permit No. R13-277, Permit No. R13-2001B, Permit No. R13-2190A, Permit No. R13-1033, Permit No. R13-1248, Permit No. R13-1308A , Permit No. R13-311B

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.)

Monitoring - N/A
Testing - WV Code § 22-5-4(a)(15) and 45CSR13
Record Keeping Requirements
Monitoring Information - 45CSR§30-5.1.c.2.A
Retention of Records - 45CSR§30-5.1.c.2.B
Odor - 45CSR§30-5.1.c (State enforceable only)
Reporting Requirements
Responsible Official - 45CSR§30-4.4, 5.1.c.3.D and 5.1.c.3.E
Certified Emissions Statement - 45CSR§30-8
Compliance Certification - 45CSR§30-5.3.e
Semi-Annual Monitoring Reports - 45CSR§30-5.1.c.3.A
Emergencies Situations – 45CSR§30-5.7
Deviations - 45CSR§30-5.1.c.3.B through D
New Applicable Requirements - 45CSR§30-4.3.h.1.B
Permit Shield - 45CSR§30-5.6

Are you in compliance with all facility-wide applicable requirements? Yes No

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

21. Active Permits/Consent Orders

Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit <i>(if any)</i>
R30-03900007-2010 (Group 1)	12/29/2010	GML – New Leachate Tanks Submitted 4-14-2015
R13-0277	01/27/1977	N/A
R13-2001B	01/26/2009	N/A
R13-2190A	01/20/2000	N/A
R13-1033	08/31/1988	N/A
R13-1248	07/23/1990	N/A
R13-3111B	9/15/2014	N/A
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Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
<u>Criteria Pollutants</u>	<u>Potential Emissions</u>
Carbon Monoxide (CO)	268.30
Nitrogen Oxides (NO _x)	1344.43
Lead (Pb)	0.019
Particulate Matter (PM _{2.5}) ¹	10.36
Particulate Matter (PM ₁₀) ¹	23.31
Total Particulate Matter (Filterable)	34.67
Total Particulate Matter (Condensable)	80.51
Sulfur Dioxide (SO ₂)	1,299
Volatile Organic Compounds (VOC)	8.76
<u>Greenhouse Gas</u>	<u>Potential Emissions</u>
Carbon Dioxide	760,476
Methane	14.30
Nitrous Oxide	2.17
<u>Hazardous Air Pollutants²</u>	<u>Potential Emissions</u>
Acetaldehyde	0.295
Acetone	0.673
Acetonitrile	0.008
Acrolein	0.012
Antimony	0.001
Arsenic	0.017
Benzene	0.078
Beryllium	0.001
Benzyl Chloride	0.028
Biphenyl	0.177
Bromoform	0.002
Carbon Disulfide	0.005
Chlorobenzene	0.001

23. Facility-Wide Emissions Summary [Tons per Year]	
Chloroform	0.002
Cyanide	0.004
Dimethyl Sulfate	0.002
Diphenyl	0.0001
Diphenyl Oxide	0.907
2-Ethoxyethanol (Ethyl Cellosolve)	4.134
Ethylene Dichloride	0.002
Formaldehyde	0.085
Isophorone	0.024
Methanol	0.311
Hexane	7.95
Hydrogen Chloride	48.71
Hydrogen Fluoride	6.090
Methyl Bromide	0.007
Methyl Ethyl Ketone	0.016
Methyl Hydrazine	0.007
Methyl Isobutyl Ketone	0.185
Methylene Chloride	0.025
Naphthalene	0.008
Propionaldehyde	0.015
Pyridine	0.492
Selenium	0.053
Toluene	0.025
1,1,1-Trichloroethane	0.0008
Styrene	0.001
Xylenes	0.002
Vinyl Acetate	0.0003

23. Facility-Wide Emissions Summary [Tons per Year]	
<u>Trace Metal pollutants</u>	<u>Potential Emissions</u>
Antimony	0.001
Arsenic	0.017
Beryllium	0.001
Cadmium	0.002
Chromium	0.011
Chromium (IV)	0.003
Cobalt	0.004
Lead	0.019
Magnesium	0.447
Manganese	0.020
Mercury	0.006
Nickel	0.011
Selenium	0.053
<u>Acid pollutants</u>	<u>Potential Emissions</u>
Hydrogen Chloride	48.71
Hydrogen Fluoride	6.09
¹ PM _{2.5} and PM ₁₀ are components of TSP. ² For 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. Insignificant Activities (Check all that apply)	
<input checked="" type="checkbox"/>	1. Air compressors and pneumatically operated equipment, including hand tools.
<input checked="" type="checkbox"/>	2. Air contaminant detectors or recorders, combustion controllers or shutoffs.
<input checked="" type="checkbox"/>	3. Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
<input checked="" type="checkbox"/>	4. Bathroom/toilet vents emissions.
<input checked="" type="checkbox"/>	5. Batteries and battery charging stations, except at battery manufacturing plants.
<input checked="" type="checkbox"/>	6. Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
<input type="checkbox"/>	7. Blacksmith forges.
<input checked="" type="checkbox"/>	8. Boiler water treatment operations, not including cooling towers.
<input checked="" type="checkbox"/>	9. Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
<input type="checkbox"/>	10. CO ₂ lasers, used only on metals and other materials which do not emit HAP in the process.
<input type="checkbox"/>	11. Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
<input type="checkbox"/>	12. Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
<input type="checkbox"/>	13. Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
<input type="checkbox"/>	14. Demineralized water tanks and demineralizer vents.
<input checked="" type="checkbox"/>	15. Drop hammers or hydraulic presses for forging or metalworking.
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	17. Emergency (backup) electrical generators at residential locations.
<input checked="" type="checkbox"/>	18. Emergency road flares.
<input type="checkbox"/>	<p>19. Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO_x, SO₂, 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.</p> <p>Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis:</p> <p>_____</p>

24. Insignificant Activities (Check all that apply)	
<input type="checkbox"/>	<p>20. Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27.</p> <p>Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis:</p> <p>_____</p> <p>_____</p>
<input type="checkbox"/>	21. Environmental chambers not using hazardous air pollutant (HAP) gases.
<input checked="" type="checkbox"/>	22. Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
<input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	24. Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
<input checked="" type="checkbox"/>	25. Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
<input checked="" type="checkbox"/>	26. Fire suppression systems.
<input checked="" type="checkbox"/>	27. Firefighting equipment and the equipment used to train firefighters.
<input type="checkbox"/>	28. Flares used solely to indicate danger to the public.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	30. Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
<input checked="" type="checkbox"/>	31. Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
<input type="checkbox"/>	32. Humidity chambers.
<input checked="" type="checkbox"/>	33. Hydraulic and hydrostatic testing equipment.
<input type="checkbox"/>	34. Indoor or outdoor kerosene heaters.
<input checked="" type="checkbox"/>	35. Internal combustion engines used for landscaping purposes.
<input type="checkbox"/>	36. Laser trimmers using dust collection to prevent fugitive emissions.
<input type="checkbox"/>	37. Laundry activities, except for dry-cleaning and steam boilers.
<input type="checkbox"/>	38. Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
<input checked="" type="checkbox"/>	39. Oxygen scavenging (de-aeration) of water.
<input type="checkbox"/>	40. Ozone generators.

<input checked="" type="checkbox"/>	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.)
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	43. Process water filtration systems and demineralizers.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	45. Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
<input checked="" type="checkbox"/>	46. Routing calibration and maintenance of laboratory equipment or other analytical instruments.
<input type="checkbox"/>	47. Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
<input type="checkbox"/>	48. Shock chambers.
<input type="checkbox"/>	49. Solar simulators.
<input type="checkbox"/>	50. Space heaters operating by direct heat transfer.
<input type="checkbox"/>	51. Steam cleaning operations.
<input checked="" type="checkbox"/>	52. Steam leaks.
<input type="checkbox"/>	53. Steam sterilizers.
<input checked="" type="checkbox"/>	54. Steam vents and safety relief valves.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	56. 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.
<input type="checkbox"/>	57. Such other sources or activities as the Director may determine.
<input checked="" type="checkbox"/>	58. Tobacco smoking rooms and areas.
<input checked="" type="checkbox"/>	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 .

Section 6: Certification of Information

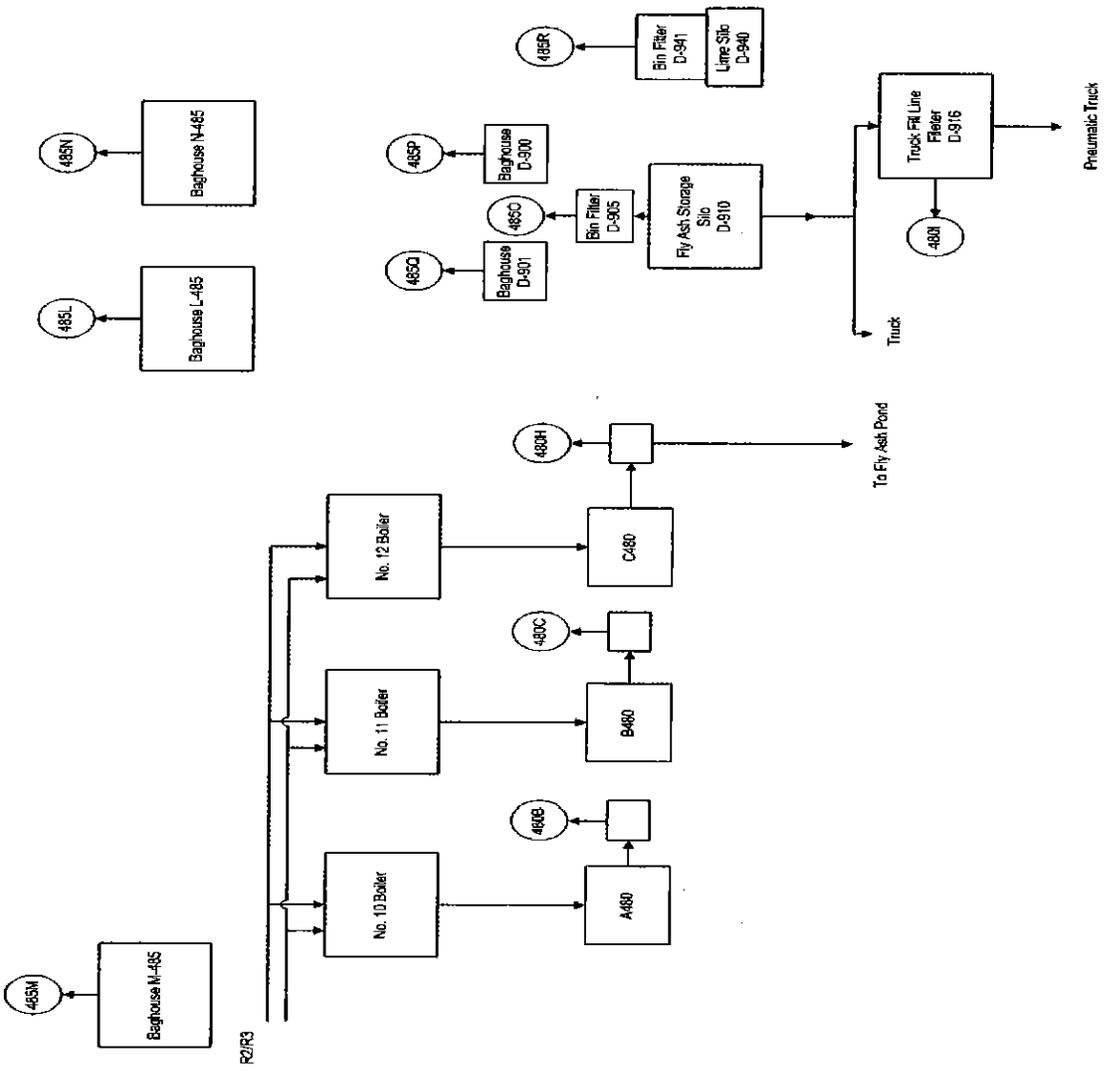
<p>28. Certification of Truth, Accuracy and Completeness and Certification of Compliance</p> <p><i>Note: This Certification must be signed by a responsible official. The original, signed in blue ink, must be submitted with the application. Applications without an original signed certification will be considered as incomplete.</i></p>	
<p>a. Certification of Truth, Accuracy and Completeness</p> <p>I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.</p>	
<p>b. Compliance Certification</p> <p>Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.</p>	
<p>Responsible official (type or print)</p>	
<p>Name: James H. Covington</p>	<p>Title: Vice-President, Bayer CropScience</p>
<p>Responsible official's signature:</p> <p>Signature: _____ Signature Date: April 30, 2015</p> <p style="text-align: center;">(Must be signed and dated in blue ink)</p>	

<p>Note: Please check all applicable attachments included with this permit application:</p>	
<input checked="" type="checkbox"/>	ATTACHMENT A: Area Map
<input checked="" type="checkbox"/>	ATTACHMENT B: Plot Plan(s)
<input checked="" type="checkbox"/>	ATTACHMENT C: Process Flow Diagram(s)
<input checked="" type="checkbox"/>	ATTACHMENT D: Equipment Table
<input checked="" type="checkbox"/>	ATTACHMENT E: Emission Unit Form(s)
<input checked="" type="checkbox"/>	ATTACHMENT F: Schedule of Compliance Form(s)
<input checked="" type="checkbox"/>	ATTACHMENT G: Air Pollution Control Device Form(s)
<input checked="" type="checkbox"/>	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

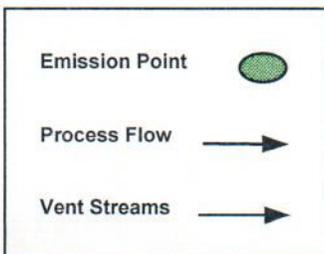
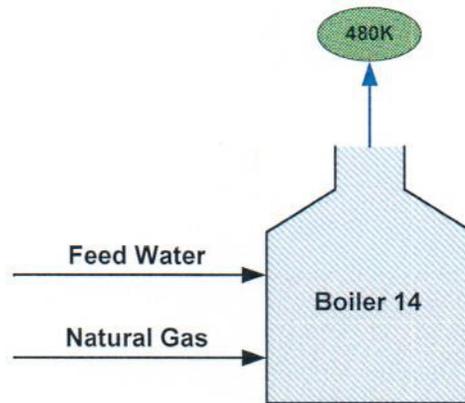
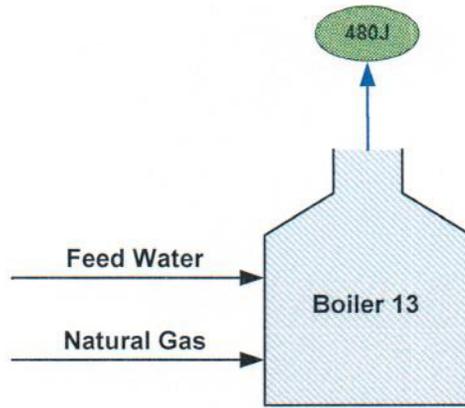
All of the required forms and additional information can be found and downloaded from, the DEP website at www.wvdep.org/dag, requested by phone (304) 926-0475, and/or obtained through the mail.

Table of Contents

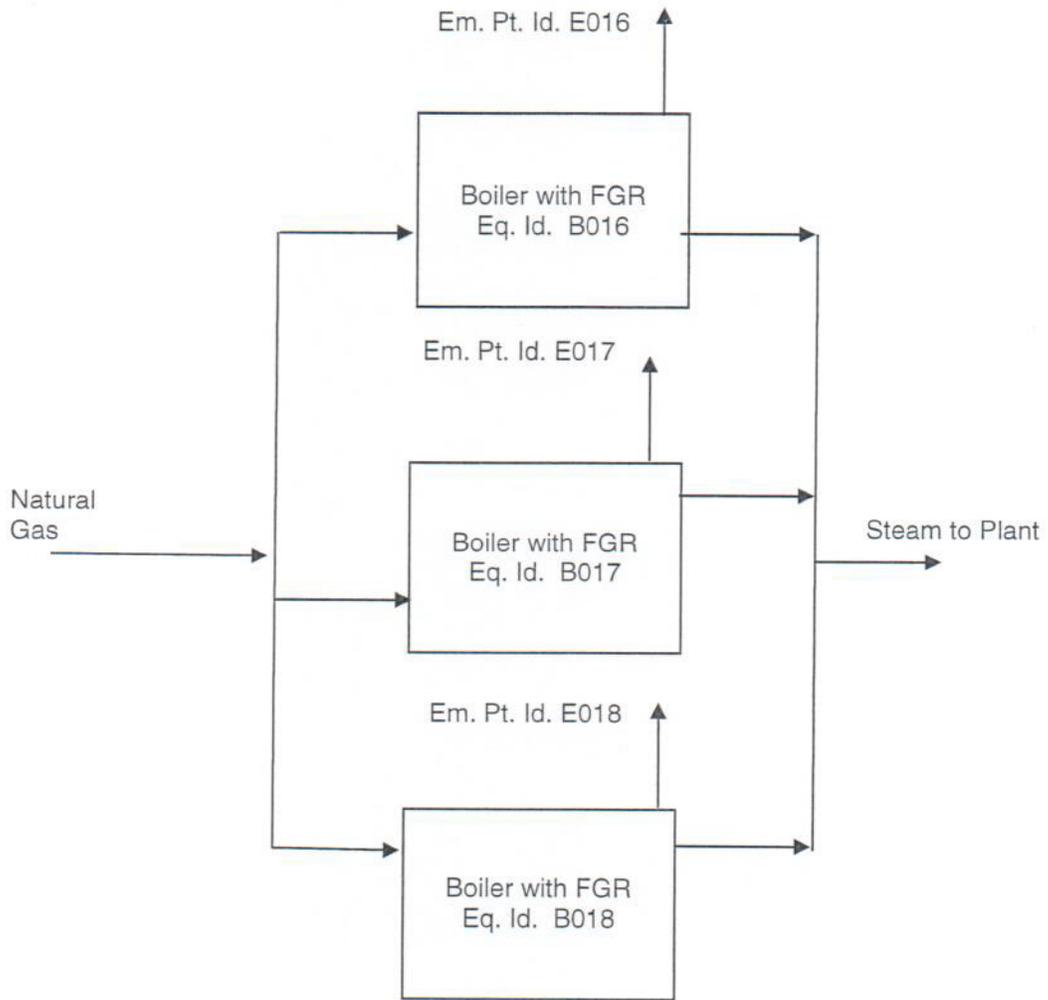
ATTACHMENT A	Area Map
ATTACHMENT B	Plot Plan
ATTACHMENT C	Process Flow Diagrams
ATTACHMENT D	Equipment Tables
ATTACHMENT E	Emission Unit Forms
ATTACHMENT F	Schedule of Compliance
ATTACHMENT G	Air Pollution Control Device Forms
ATTACHMENT H	Compliance Assurance Monitoring
TABLE 1	MRR Requirements Summary
TABLE 2	Emission Summary



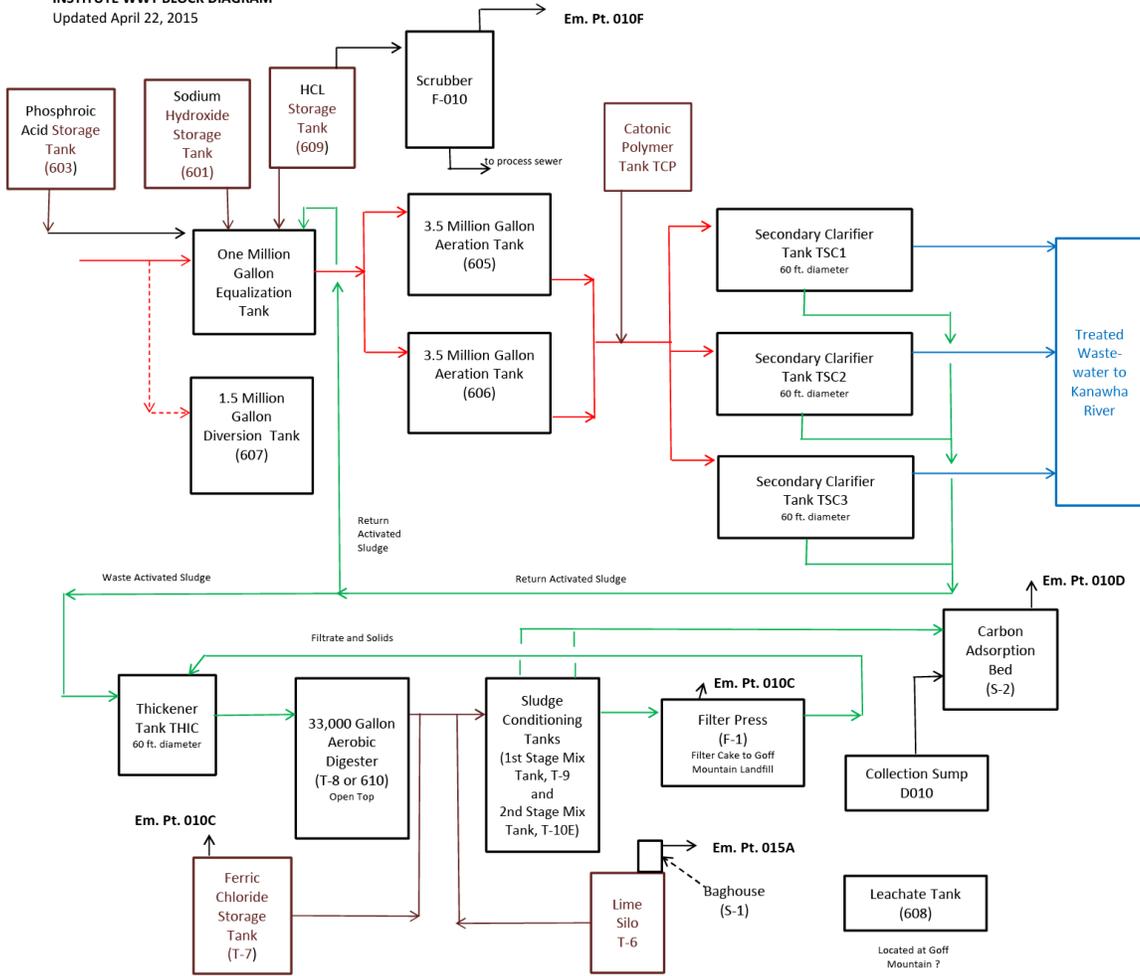
Attachment F
Process Flow Diagram



Bayer CropScience Institute Facility
Regulation 13 Permit Modification Application – Indirect Heat Exchangers
Attachment F: Process Flow Diagram



INSTITUTE WWT BLOCK DIAGRAM
Updated April 22, 2015



ATTACHMENT D - Emission Units Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed/Modified	Design Capacity	Control Device
POWERHOUSE NO.2					
D-940	485R	Lime Storage Silo	2000	40 Tons	Bin Vent Filter
Conveyor A	485Q	Pneumatic Conveyor A	1996	7 Tons/Hr.	Baghouse (D-901)
Conveyor B	485P	Pneumatic Conveyor B	1996	7 Tons/Hr.	Baghouse (D-900)
D-910	485O	Flyash Storage Silo	1988	350 Tons	Silo Bin Filter
Boiler No. 10	480A	Boiler No. 10	1956	360 MMBTU/Hr.	Electrostatic Precipitator (1C)
Boiler No. 11	480A	Boiler No. 11	1960	360 MMBTU/Hr.	Electrostatic Precipitator (2C)
Boiler No. 12	480A	Boiler No. 12	1963	360 MMBTU/Hr.	Electrostatic Precipitator (3C)
Coal Bunkers	485L 485N	Coal Storage Bunker Room	1956	20 Tons	Baghouse (L-485) Baghouse (N-485)
Truck Fill Line	480I	Truck Fill Line	1998	1,500 acfm	Filter (D-916)
547	485M	Water Softener Lime Silo	1960	40 Tons	Baghouse (M-485)
<i>Powerhouse No. 2 Control Devices</i>					
D-941	485R	Bin Vent Filter	1998	235 ft ² cloth	N/A
D-901	485Q	Baghouse	1996	355 ft ² cloth	N/A
D-900	485P	Baghouse	1996	355 ft ² cloth	N/A
D-905	485O	Silo Bin Filter	1996	132 ft ² cloth	N/A
D-916	480I	Filter	1998	640 ft ² cloth	N/A
1C	480A	Electrostatic Precipitator	1978	194,000 cfm	N/A
2C	480A	Electrostatic Precipitator	1978	194,000 cfm	N/A
3C	480A	Electrostatic Precipitator	1978	194,000 cfm	N/A
L-485	485L	Baghouse	1978	1,232 ft ² cloth	N/A
N-485	485N	Baghouse	1978	1,232 ft ² cloth	N/A

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device
NATURAL GAS-FIRED INDUSTRIAL BOILERS					
Boiler 13	480J	Boiler 13; Zurn Model RB-741 South; Natural Gas Fired Boiler with Low NOx Burner and Flue Gas Recirculation	2013	80 MMBtu/Hr	None
Boiler 14	480K	Boiler 14; Zurn Model RB-709 North; Natural Gas Fired Boiler with Low NOx Burner and Flue Gas Recirculation	2013	80 MMBtu/Hr	None
B016 ¹	E016	Boiler 16; Industrial Boiler; Natural Gas Fired Boiler with Low NOx Burner	2015	350 MMBtu/Hr	None
B017 ¹	E017	Boiler 17; Industrial Boiler; Natural Gas Fired Boiler with Low NOx Burner	2015	350 MMBtu/Hr	None
B018 ¹	E018	Boiler 18; Industrial Boiler; Natural Gas Fired Boiler with Low NOx Burner	2015	350 MMBtu/Hr	None
MAINTENANCE					
100	460A	Gasoline Tank	1985	4,000 Gallons	Vapor Balance
460	460A	VAT Tank	1979	2,500	Closed Top
460	Fugitives	General Maintenance Supplies	N/A	N/A	N/A
WWTU					
D010	010D	Collection Sump	1988	5,000 Gallons	Carbon Adsorption (S-2)
F-1	010C	Filter Press	1988	N/A	N/A
T-6	015A	Lime Silo	1988	60 Tons	Baghouse (S-1)
T-10E	010D	2nd Stage Mix Tank	1988	7,000 Gallons	Carbon Adsorption (S-2)
T-7	010C	Ferric Chloride Tank	1988	5,000 Gallons	N/A
T-9	010D	1 st Stage Mix Tank	N/A	1,200 Gallons	Carbon Adsorption (S-2)
T-609	010F	HCl Acid Storage Tank	1990	12,000 Gallons	Scrubber (F-010)
T-8	Open Top	Aerobic Digester	N/A	330,000 Gallons	N/A

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device
T-608	Open Top	Leachate Tank	1988	300,000 gallons	N/A
T-607	E-607	Diversion Tank	1987	1,500,000 gallons	NA
T-4582	E-4582	50% Caustic Tank	1988	280,000 gallons	NA
T-4583	E-4583	50/20% Caustic Tank	1981	280,000 gallons	NA
T-4585	E-4585	20% Caustic Tank	1981	280,000 gallons	NA
T-605	E-605	Aeration Basin	1987	3,680,000 gallons	NA
T-606	E-606	Aeration Basin	1987	3,680,000 gallons	NA
T-601	E-601	Caustic Tank	1975	10,000 gallons	NA
T-603	E-603	Phosphoric Acid Tank	1995	22,000 gallons	NA
TSC-1	ESC-1	Secondary Clarifier	1963	60 ft. dia.	NA
TSC-2	ESC-2	Secondary Clarifier	1963	60 ft. dia.	NA
TSC-3	ESC-3	Secondary Clarifier	1963	60 ft. dia.	NA
T-615	E-615	Equalization Tank	1997	1,000,000 gal	NA
THIC	E-THIC	Thickener Tank	1980	60 ft. dia.	NA
TCP	E-TCP	Cationic Polymer Tank	1980		NA

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device
WWTU Control Devices					
S-2	010D	Carbon Adsorption	1988	1,800 lbs carbon	N/A
S-1	015A	Baghouse	1988	151 ft ² cloth	N/A
F-010	010F	Scrubber	1990	4 gpm	N/A
LABORATORY					
450	Fugitives	Miscellaneous Laboratory Analyses	N/A	N/A	N/A
EMERGENCY SYSTEMS					
EG-1	EG-1	Incident Command Center – Emergency Generator	2010	470 hp	NA
P-302	E-302	#2 River Water Fire Pump	Pre-1990	3000 gpm @420 hp	NA
P-1019	E-1019	#3 River Water Fire Pump	Pre-1990	2000 gpm @246 hp	NA
P-1020	E-1020	#4 River Water Fire Pump	Pre-1990	2000 gpm @246 hp	NA
P-629	E-629	East Sump Pump	Pre-1990	420 hp	NA
P-319	EG-1	Center Sump Diesel Pump (Caterpillar)	2013	300 hp	NA
P-354	EG-2	West Sump Diesel Pump (John Deere)	2013	156 hp	NA
T-CS	E-T-CS	Diesel Storage Tank – Center Sump	2013	250 gal	NA
T-WS	E-T-WS	Diesel Storage Tank – West Sump	2013	175 gal	NA
¹ For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points.					

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: Boiler 13	Emission unit name: Boiler 13 Industrial Boiler	List any control devices associated with this emission unit: None
--	---	---

Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Boiler 13 Industrial Boiler, 80 mmBtu Natrual Gas with Low NOx Burner and Flue Gas Recirculation

Manufacturer: Zurn	Model number: RB 741	Serial number:
------------------------------	--------------------------------	-----------------------

Construction date: / /	Installation date: 01/30/2013	Modification date(s): MM/DD/YYYY
----------------------------------	---	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

80 MMBtu/Hr

Maximum Hourly Throughput: 60,000 pph, 550 psig	Maximum Annual Throughput:	Maximum Operating Schedule: 8760 hrs.
---	-----------------------------------	---

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
--	---

Maximum design heat input and/or maximum horsepower rating: 80 MMBTU/Hr	Type and Btu/hr rating of burners: 80 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.

Natural Gas

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	5-20 gr/MMcf	None	1,015 Btu per cf

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	6.85	30.2
Nitrogen Oxides (NO _x)	4.08	17.87
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)	0.62	2.72
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)	0.05	0.21
Volatile Organic Compounds (VOC)	0.45	1.97
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
HAP	1.16	0.67
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>Engineering Estimates</p>		

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.

R13-3111-B including all regulatory references listed in the NSR Permit

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

4.2.1 – Record operation hours and natural gas usage.

Testing

NA

Recordkeeping

4.4.1 – Maintain monitoring records.

4.4.2 – Maintain maintenance records.

4.4.3 – Maintain malfunction records for air pollution control equipment.

4.4.4 – Maintain tune-up records.

Reporting

4.5.1 – Notification of Compliance

4.5.3 – Annual compliance report submitted no later than 1/31/2017 in the EPA CDX database system.

Are you in compliance with all applicable requirements for this emission unit? 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: Boiler 14	Emission unit name: Boiler 14 Industrial Boiler	List any control devices associated with this emission unit: None
--	---	---

Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Boiler 14 Industrial Boiler, 80 mmBtu Natrual Gas with Low NOx Burner and Flue Gas Recirculation

Manufacturer: Zurn	Model number: RB 709	Serial number:
------------------------------	--------------------------------	-----------------------

Construction date: / /	Installation date: 01/30/2013	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

80 MMBtu/Hr

Maximum Hourly Throughput: 60,000 pph, 550 psig	Maximum Annual Throughput:	Maximum Operating Schedule: 8760 hrs.
---	-----------------------------------	---

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
--	---

Maximum design heat input and/or maximum horsepower rating: 80 MMBTU/Hr	Type and Btu/hr rating of burners: 80 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.

Natural Gas

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	5-20 gr/MMcf	None	1,015 Btu per cf

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	6.85	30.2
Nitrogen Oxides (NO _x)	4.08	17.87
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)	0.62	2.72
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)	0.05	0.21
Volatile Organic Compounds (VOC)	0.45	1.97
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
HAP	1.16	0.67
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>Engineering Estimates</p>		

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.

R13-3111-B including all regulatory references listed in the NSR Permit

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

4.2.1 – Record operation hours and natural gas usage.

Testing

NA

Recordkeeping

4.4.1 – Maintain monitoring records.

4.4.2 – Maintain maintenance records.

4.4.3 – Maintain malfunction records for air pollution control equipment.

4.4.4 – Maintain tune-up records.

Reporting

4.5.1 – Notification of Compliance

4.5.3 – Annual compliance report submitted no later than 1/31/2017 in the EPA CDX database system.

Are you in compliance with all applicable requirements for this emission unit? 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: D-940	Emission unit name: 485R	List any control devices associated with this emission unit: Bin Vent Filter D-941
--	------------------------------------	--

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Lime Storage Silo

Manufacturer: N/A	Model number: N/A	Serial number: N/A
-----------------------------	-----------------------------	------------------------------

Construction date: N/A	Installation date: 2000	Modification date(s): N/A
----------------------------------	-----------------------------------	-------------------------------------

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
40 tons

Maximum Hourly Throughput: 52,000 lbs/hr	Maximum Annual Throughput: 468 tons	Maximum Operating Schedule: 8,760 hrs/yr
--	---	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	Type and Btu/hr rating of burners: N/A
---	--

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.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO _x)	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	N/A	N/A
Particulate Matter (PM ₁₀)	1.1	0.04
Total Particulate Matter (TSP)	11.4	0.37
Sulfur Dioxide (SO ₂)	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p>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.).</p> <p>Engineering Estimate, Vendor data.</p>		

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.

45 CSR 13, Permit No. R13 – 2190A

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

6.2.2 Proper operation and maintenance of the HCl scrubber as listed in the Preventative Maintenance Plan submitted on March 31, 2005.

6.2.3 Monitor material balances around the baghouse systems and inspect filter system monthly.

Are you in compliance with all applicable requirements for this emission unit? 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: 547	Emission unit name: Water Softener Lime Silo	List any control devices associated with this emission unit: Baghouse (M-485)
--	--	---

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Water Softener Lime Silo

Manufacturer: N/A	Model number: N/A	Serial number: N/A
-----------------------------	-----------------------------	------------------------------

Construction date: N/A	Installation date: 1960	Modification date(s): N/A
----------------------------------	-----------------------------------	-------------------------------------

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
40 tons

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
--	--	---

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	Type and Btu/hr rating of burners: N/A
---	--

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.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<i>Emissions Data</i>			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)	N/A	N/A	
Nitrogen Oxides (NO _x)	N/A	N/A	
Lead (Pb)	N/A	N/A	
Particulate Matter (PM _{2.5})	N/A	N/A	
Particulate Matter (PM ₁₀)	N/A	N/A	
Total Particulate Matter (TSP)	14.0	61.32	
Sulfur Dioxide (SO ₂)	N/A	N/A	
Volatile Organic Compounds (VOC)	N/A	N/A	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
<p>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.).</p> <p>Engineering Estimate</p>			

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.

45 CSR 7
45 CSR 13 – Permit No. R13-2001B

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.)

See **Table 1** for applicable monitoring, testing, recordkeeping, and reporting requirements.

Are you in compliance with all applicable requirements for this emission unit? 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: Conveyor A	Emission unit name: Pneumatic Conveyor A	List any control devices associated with this emission unit: Baghouse (D-901)
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Pneumatic Conveyor

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: N/A	Installation date: 1996	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
7 tons/hr

Maximum Hourly Throughput: 7 tons/hr	Maximum Annual Throughput: 33,150 tons/yr	Maximum Operating Schedule: 8,760 hrs/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	Type and Btu/hr rating of burners: N/A
---	--

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.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)	N/A	N/A	
Nitrogen Oxides (NO _x)	N/A	N/A	
Lead (Pb)	N/A	N/A	
Particulate Matter (PM _{2.5})	N/A	N/A	
Particulate Matter (PM ₁₀) <small>*Total annual emission limit for the two emission points</small>	4.6	14.23*	
Total Particulate Matter (TSP)	N/A	N/A	
Sulfur Dioxide (SO ₂)	N/A	N/A	
Volatile Organic Compounds (VOC)	N/A	N/A	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
<p>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.).</p> <p>Engineering Estimate and vendor data.</p>			

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.

45 CSR 7
45 CSR 13, Permit No. R13-2001B

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.)

See **Table 1** for applicable monitoring, testing, recordkeeping and reporting requirements.

Are you in compliance with all applicable requirements for this emission unit? 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: Conveyor B	Emission unit name: Pneumatic Conveyor B	List any control devices associated with this emission unit: Baghouse (D-900)
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 Pneumatic Conveyor

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: N/A	Installation date: 1996	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
 7 tons per hour

Maximum Hourly Throughput: 7 tons per hour	Maximum Annual Throughput: 33,150 tons/yr	Maximum Operating Schedule: 8,760 hrs/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
--	--

Maximum design heat input and/or maximum horsepower rating: N/A	Type and Btu/hr rating of burners: N/A
---	--

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.
 N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)	N/A	N/A	
Nitrogen Oxides (NO _x)	N/A	N/A	
Lead (Pb)	N/A	N/A	
Particulate Matter (PM _{2.5})	N/A	N/A	
Particulate Matter (PM ₁₀) <small>*Total annual emission limit for the two emission points</small>	4.6	14.23*	
Total Particulate Matter (TSP)	N/A	N/A	
Sulfur Dioxide (SO ₂)	N/A	N/A	
Volatile Organic Compounds (VOC)	N/A	N/A	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
<p>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.).</p> <p>Engineering Estimate and vendor data.</p>			

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.

45 CSR 7
45 CSR 13, Permit No. R13-2001B

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.)

See Table 1 for applicable monitoring, testing, recordkeeping and reporting requirements.

Are you in compliance with all applicable requirements for this emission unit? 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: D-910	Emission unit name: Flyash Storage Silo	List any control devices associated with this emission unit: Silo bin filter (D-905)	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Silo			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: N/A	Installation date: 1988	Modification date(s): 1996	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 350 tons			
Maximum Hourly Throughput: 14 tons/hr	Maximum Annual Throughput: 33,150 tons/yr	Maximum Operating Schedule: 8,760 hrs/yr	
Fuel Usage Data (fill out all applicable 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: N/A		Type and Btu/hr rating of burners: N/A	
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. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)	N/A	N/A	
Nitrogen Oxides (NO _x)	N/A	N/A	
Lead (Pb)	N/A	N/A	
Particulate Matter (PM _{2.5})	N/A	N/A	
Particulate Matter (PM ₁₀)	1.6	6.75	
Total Particulate Matter (TSP)	N/A	N/A	
Sulfur Dioxide (SO ₂)	N/A	N/A	
Volatile Organic Compounds (VOC)	N/A	N/A	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
<p>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.).</p> <p>Engineering Estimate and vendor data.</p>			

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.

45 CSR 7
45 CSR 13, Permit No. R13-2001B

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.)

See **Table 1** for applicable monitoring, testing, recordkeeping and reporting requirements.

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

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

ATTACHMENT E - Emission Unit Form

<i>Emission Unit Description</i>			
Emission unit ID number: Boiler No. 10	Emission unit name: Boiler No. 10	List any control devices associated with this emission unit: Electrostatic Precipitator (1C)	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Industrial Boiler			
Manufacturer: Combustion Engineering, Inc.	Model number: VU-40S	Serial number: N/A	
Construction date: N/A	Installation date: 1956	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 360 MBTU/hr			
Maximum Hourly Throughput: 36.187 tons/hr	Maximum Annual Throughput: 317,000 tons/yr	Maximum Operating Schedule: 8,760 hrs/yr	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired	
Maximum design heat input and/or maximum horsepower rating: 350,000,000 Btu/hr		Type and Btu/hr rating of burners: 20 burners @ 625 MBtu/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. Coal maximum hourly fuel rate = 29,200 lb/hr, annual fuel usage rate = 127,896 tons/yr Natural Gas maximum hourly fuel rate = 206,000 ft ³ /hr, annual fuel usage rate = 1.80456 X 10 ⁹ ft ³ /hr			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Coal	1.2%	20%	12,000 Btu/lb.
Natural Gas	N/A	N/A	1,030

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions (total for Boilers 10, 11, & 12)	
	PPH	TPY
Carbon Monoxide (CO)	9.46	41.44
Nitrogen Oxides (NO _x)	106.11	464.74
Lead (Pb)	0.0001	0.00001
Particulate Matter (PM _{2.5})	0.94	4.10
Particulate Matter (PM ₁₀)	2.11	9.23
Total Particulate Matter (TSP)	5.15	22.56
Sulfur Dioxide (SO ₂)	117.13	513.04
Volatile Organic Compounds (VOC/HC)	0.72	3.15
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See Table for HAPs*		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
*Total PTE for entire No. 2 Steam Plant		
<p>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.).</p> <p>AP-42 Emission Factors Engineering Estimate</p>		

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.

45 CSR 2
45 CSR 10
45 CSR 13, R13 – 277

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.)

See **Table 1** for applicable monitoring, testing, recordkeeping and reporting requirements.

Are you in compliance with all applicable requirements for this emission unit? 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: Boiler 12	Emission unit name: Boiler No. 12	List any control devices associated with this emission unit: Electrostatic Precipitator (3C)
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Industrial Boiler

Manufacturer: Combustion Engineering, Inc.	Model number: VU-405	Serial number: N/A
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Construction date: N/A	Installation date: 1963	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
360 MBTU/hr

Maximum Hourly Throughput: 36.187 tons/hr	Maximum Annual Throughput: 317,000 tons/yr	Maximum Operating Schedule: 8,760 hrs/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
--	---

Maximum design heat input and/or maximum horsepower rating: 350,000,000 Btu/hr	Type and Btu/hr rating of burners: 20 burners @ 625 MBtu/hr
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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.
 Coal maximum hourly fuel rate = 29,200 lb/hr, annual fuel usage rate = 127,896 tons/yr
 Natural Gas maximum hourly fuel rate = 206,000 ft³/hr, annual fuel usage rate = 1.80456 X 10⁹ ft³/hr

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Coal	1.2%	20%	12,000 Btu/lb.
Natural Gas	N/A	N/A	1,030

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions (total for Boilers 10, 11, & 12)	
	PPH	TPY
Carbon Monoxide (CO)	6.50	28.47
Nitrogen Oxides (NO _x)	72.89	319.25
Lead (Pb)	0.00	0.00
Particulate Matter (PM _{2.5})	0.64	2.82
Particulate Matter (PM ₁₀)	1.45	6.34
Total Particulate Matter (TSP)	3.54	15.50
Sulfur Dioxide (SO ₂)	80.46	352.42
Volatile Organic Compounds (VOC)	0.49	2.16
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See HAPs Table		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
*Total PTE for entire No. 2 Steam Plant		
<p>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.).</p> <p>AP-42 Emission Factors Engineering Estimate</p>		

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.

45 CSR 2
45 CSR 10
45 CSR 13, R13 – 277

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.)

See **Table 1** for applicable monitoring, testing, recordkeeping and reporting requirements.

Are you in compliance with all applicable requirements for this emission unit? 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: Boiler 11	Emission unit name: Boiler No. 11	List any control devices associated with this emission unit: Electrostatic Precipitator (2C)	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Industrial Boiler			
Manufacturer: Combustion Engineering, Inc.	Model number: VU-405	Serial number: N/A	
Construction date: N/A	Installation date: 1960	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 360 MBTU/hr			
Maximum Hourly Throughput: 36.187 tons/hr	Maximum Annual Throughput: 317,000 tons/yr	Maximum Operating Schedule: 8,760 hrs/yr	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired	
Maximum design heat input and/or maximum horsepower rating: 350,000,000 Btu/hr		Type and Btu/hr rating of burners: 20 burners @ 625 MBtu/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. Coal maximum hourly fuel rate = 29,200 lb/hr, annual fuel usage rate = 127,896 tons/yr Natural Gas maximum hourly fuel rate = 206,000 ft ³ /hr, annual fuel usage rate = 1.80456 X 10 ⁹ ft ³ /hr			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Coal	1.2%	20%	12,000 Btu/lb.
Natural Gas	N/A	N/A	1,030

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions (total for Boilers 10, 11, & 12)	
	PPH	TPY
Carbon Monoxide (CO)	7.94	34.78
Nitrogen Oxides (NO _x)	89.04	390.01
Lead (Pb)	0.015	0.067
Particulate Matter (PM _{2.5})	0.79	3.44
Particulate Matter (PM ₁₀)	1.77	7.74
Total Particulate Matter (TSP)	4.32	19.94
Sulfur Dioxide (SO ₂)	98.30	430.54
Volatile Organic Compounds (VOC)	0.60	2.64
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
See for Table 1		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
*Total PTE for entire No. 2 Steam Plant		
<p>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.).</p> <p>AP-42 Emission Factors Engineering Estimate</p>		

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.

45 CSR 2
45 CSR 10
45 CSR 13, R13 – 277

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.)

See **Table 1** for applicable monitoring, testing, recordkeeping and reporting requirements.

Are you in compliance with all applicable requirements for this emission unit? 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: Coal Bunkers	Emission unit name: Coal Bunkers	List any control devices associated with this emission unit: Baghouse (L-485) Baghouse (N-485)
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 Coal Storage Bunker Room

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: N/A	Installation date: 1956	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
 20 tons

Maximum Hourly Throughput: 36.187 tons/hr	Maximum Annual Throughput: 317,000 tons/yr	Maximum Operating Schedule: 8,760 hrs/yr
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Fuel Usage Data (fill out all applicable 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: N/A	Type and Btu/hr rating of burners: N/A
---	--

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.

N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<i>Emissions Data</i>			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)	N/A	N/A	
Nitrogen Oxides (NO _x)	N/A	N/A	
Lead (Pb)	N/A	N/A	
Particulate Matter (PM _{2.5})	N/A	N/A	
Particulate Matter (PM ₁₀)	N/A	N/A	
Total Particulate Matter (TSP)	1.9	8.322	
Sulfur Dioxide (SO ₂)	N/A	N/A	
Volatile Organic Compounds (VOC)	N/A	N/A	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
<p>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.).</p> <p>Engineering Estimate</p>			

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.

45 CFR 7

45 CFR 13, Permit No. R13-277

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? 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: Truck Fill Line	Emission unit name: Truck Fill Line	List any control devices associated with this emission unit: Filter (D-916)
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Truck Fill Line

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 1998	Installation date: 1998	Modification date(s): 1998
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1,500 acfm

Maximum Hourly Throughput: 150 tons/yr	Maximum Annual Throughput: 33.15 tons/yr	Maximum Operating Schedule: 1,840 hr/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating: N/A	Type and Btu/hr rating of burners: N/A
---	--

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.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO _x)	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	N/A	N/A
Particulate Matter (PM ₁₀)	0.05	0.05
Total Particulate Matter (TSP)	0.5	0.47
Sulfur Dioxide (SO ₂)	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p>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.).</p> <p>Engineering Estimate</p>		

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.

45 CSR 13, Permit No. R13 – 2190A
45 CSR 7

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.)

See Table 1 for applicable monitoring, testing, recordkeeping, and reporting requirements.

Are you in compliance with all applicable requirements for this emission unit? 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: 450	Emission unit name: Miscellaneous Laboratory Analyses	List any control devices associated with this emission unit: N/A
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Miscellaneous Laboratory Analyses

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: N/A	Installation date: 1943	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
N/A

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable 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: N/A	Type and Btu/hr rating of burners: N/A
---	--

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.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO _x)	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	N/A	N/A
Particulate Matter (PM ₁₀)	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO ₂)	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p>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.).</p> <p>N/A</p>		

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.

N/A

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.)

N/A

Are you in compliance with all applicable requirements for this emission unit? 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: B-016	Emission unit name: Boiler 16 Industrial Boiler	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Boiler 16 Industrial Boiler, 350 mmBtu Natrual Gas with Low NOx Burner

Manufacturer:	Model number:	Serial number:
Construction date: 09/ /2015	Installation date: MM/DD/YYYY	Modification date(s): MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

350 MMBtu/Hr

Maximum Hourly Throughput: 250,000 pph, 400 psig	Maximum Annual Throughput:	Maximum Operating Schedule: 8760 hrs.
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
--	---

Maximum design heat input and/or maximum horsepower rating: 350 MMBTU/Hr	Type and Btu/hr rating of burners: 350 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.

Natural Gas

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	2,000 gr/MMcf	None	950 - 1,250 Btu per cf

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	12.0	52.4
Nitrogen Oxides (NO _x)	12.7	55.6
Lead (Pb)	0.0002	0.0007
Particulate Matter (PM _{2.5})	1.75	7.67
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)	0.20	0.88
Volatile Organic Compounds (VOC)	1.85	8.09
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
HAP	0.63	2.77
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>Engineering Estimates</p>		

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.

R13-3111-B including all regulatory references listed in the NSR Permit

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

- 4.2.1 – Record operation hours and natural gas usage.
- 4.2.2 – Maintain natural gas usage records.
- 4.2.3 – Maintain CEMS monitoring equipment.

Testing

- 4.3.1 – Initial performance testing for Boilers 16, 17 and 18 within 180 days after startup.
- 4.3.2 – Conduct performance test for CEMS monitoring for Boilers 16, 17 and 18 within 60 days of achieving maximum production rate.

Recordkeeping

- 4.4.1 – Maintain monitoring records.
- 4.4.2 – Maintain maintenance records.
- 4.4.3 – Maintain malfunction records for air pollution control equipment.
- 4.4.4 – Maintain tune-up records.
- 4.4.5 – Maintain records for Boiler 16, 17 and 18 to include average NOx emission rates and other listed requirements.

Reporting

- 4.5.2 – Submit Initial Notification for Boilers 16, 17 and 18 within 15 days of startup.
- 4.5.4 – Submit 5-Year Compliance Reports for Boilers 16, 17 and 18 using EPA CDX database system.
- 4.5.4 – Submit NOx CEMS performance evaluation for Boilers 16, 17 and 18
- 5.5.6 – Submit semi-annual reports for Boilers 16, 17 and 18.

Are you in compliance with all applicable requirements for this emission unit? 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: B-017	Emission unit name: Boiler 17 Industrial Boiler	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Boiler 17 Industrial Boiler, 350 mmBtu Natrual Gas with Low NOx Burner

Manufacturer:	Model number:	Serial number:
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Construction date: 09/00/2015	Installation date: MM/DD/YYYY	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

350 MMBtu/Hr

Maximum Hourly Throughput: 250,000 pph, 400 psig	Maximum Annual Throughput:	Maximum Operating Schedule: 8760 hrs.
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
--	---

Maximum design heat input and/or maximum horsepower rating: 350 MMBTU/Hr	Type and Btu/hr rating of burners: 350 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.
Natural Gas

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	2,000 gr/MMcf	None	950 - 1,250 Btu per cf

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	12.0	52.4
Nitrogen Oxides (NO _x)	12.7	55.6
Lead (Pb)	0.0002	0.0007
Particulate Matter (PM _{2.5})	1.75	7.67
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)	0.20	0.88
Volatile Organic Compounds (VOC)	1.85	8.09
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
HAP	0.63	2.77
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>Engineering Estimates</p>		

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.

R13-3111-B including all regulatory references listed in the NSR Permit

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

- 4.2.1 – Record operation hours and natural gas usage.
- 4.2.2 – Maintain natural gas usage records.
- 4.2.3 – Maintain CEMS monitoring equipment.

Testing

- 4.3.1 – Initial performance testing for Boilers 16, 17 and 18 within 180 days after startup.
- 4.3.2 – Conduct performance test for CEMS monitoring for Boilers 16, 17 and 18 within 60 days of achieving maximum production rate.

Recordkeeping

- 4.4.1 – Maintain monitoring records.
- 4.4.2 – Maintain maintenance records.
- 4.4.3 – Maintain malfunction records for air pollution control equipment.
- 4.4.4 – Maintain tune-up records.
- 4.4.5 – Maintain records for Boiler 16, 17 and 18 to include average NOx emission rates and other listed requirements.

Reporting

- 4.5.2 – Submit Initial Notification for Boilers 16, 17 and 18 within 15 days of startup.
- 4.5.4 – Submit 5-Year Compliance Reports for Boilers 16, 17 and 18 using EPA CDX database system.
- 4.5.4 – Submit NOx CEMS performance evaluation for Boilers 16, 17 and 18
- 5.5.6 – Submit semi-annual reports for Boilers 16, 17 and 18.

Are you in compliance with all applicable requirements for this emission unit? 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: B-018	Emission unit name: Boiler 18 Industrial Boiler	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Boiler 18 Industrial Boiler, 350 mmBtu Natrual Gas with Low NOx Burner

Manufacturer:	Model number:	Serial number:
Construction date: 09/00/2015	Installation date: MM/DD/YYYY	Modification date(s): MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

350 MMBtu/Hr

Maximum Hourly Throughput: 250,000 pph, 400 psig	Maximum Annual Throughput:	Maximum Operating Schedule: 8760 hrs.
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
--	---

Maximum design heat input and/or maximum horsepower rating: 350 MMBTU/Hr	Type and Btu/hr rating of burners: 350 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.

Natural Gas

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas	2,000 gr/MMcf	None	950 - 1,250 Btu per cf

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	12.0	52.4
Nitrogen Oxides (NO _x)	12.7	55.6
Lead (Pb)	0.0002	0.0007
Particulate Matter (PM _{2.5})	1.75	7.67
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)	0.20	0.88
Volatile Organic Compounds (VOC)	1.85	8.09
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
HAP	0.63	2.77
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>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.).</p> <p>Engineering Estimates</p>		

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.

R13-3111-B including all regulatory references listed in the NSR Permit

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

- 4.2.1 – Record operation hours and natural gas usage.
- 4.2.2 – Maintain natural gas usage records.
- 4.2.3 – Maintain CEMS monitoring equipment.

Testing

- 4.3.1 – Initial performance testing for Boilers 16, 17 and 18 within 180 days after startup.
- 4.3.2 – Conduct performance test for CEMS monitoring for Boilers 16, 17 and 18 within 60 days of achieving maximum production rate.

Recordkeeping

- 4.4.1 – Maintain monitoring records.
- 4.4.2 – Maintain maintenance records.
- 4.4.3 – Maintain malfunction records for air pollution control equipment.
- 4.4.4 – Maintain tune-up records.
- 4.4.5 – Maintain records for Boiler 16, 17 and 18 to include average NOx emission rates and other listed requirements.

Reporting

- 4.5.2 – Submit Initial Notification for Boilers 16, 17 and 18 within 15 days of startup.
- 4.5.4 – Submit 5-Year Compliance Reports for Boilers 16, 17 and 18 using EPA CDX database system.
- 4.5.4 – Submit NOx CEMS performance evaluation for Boilers 16, 17 and 18
- 5.5.6 – Submit semi-annual reports for Boilers 16, 17 and 18.

Are you in compliance with all applicable requirements for this emission unit? 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: P-302	Emission unit name: #2 Emergency Fire Water Pump	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Fire pump used for site emergency services.

Manufacturer:	Model number:	Serial number:
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Construction date: Prior to June 2006	Installation date: Prior to June 2006	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

420 hp

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> 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.

Diesel

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Diesel			

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

Diesel fueled (compression ignition) internal combustion engines for emergency use (less than or equal to 500 bhp) constructed prior to June 12, 2006, are covered by the following provisions of 40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE MACT). These provisions apply to #2, #3, and #4 diesel fueled firewater pumps.

Emission Limits and Other Requirements - 63.6602, Table 2c

Monitoring, Installation, Collection, Operation and Maintenance Requirements - 63.6625(e), (f), (h), and (i)

Continuous Compliance - 63.6605 & 63.6640(f)

Recordkeeping Requirements - 63.6655(a)(1), (a)(2), (a)(4), (a)(5), (e)(2), (f)(1) and 63.6660

General Provisions (40 CFR part 63) - Yes, except per 63.6645(a)(5), the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).

Summary of Requirements:

Operational, testing and maintenance checks limited to 100 hour/yr.

Non-emergency use is allowed but for only 50 hours per year that is applied to the 100 hrs/yr limit.

All hours of operation must be logged/documented.

Non-resettable hour meters must be installed.

Change oil and filter every 500 hours of operation or annually, whichever comes first.

Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first.

Inspect hoses and belts every 1,000 hours or operation or annually, whichever comes first

Operate the engine in accordance with the manufacturer's emission-related written instructions or develop your own maintenance plan.

See attachment to this form for proposed permit language.

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.)

Records will be maintain of engine use and maintenance conducted.

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

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

Proposed Permit Language for Existing Emergency Compression Ignition Stationary Reciprocating Internal Combustion Engines Less Than or Equal to 500 bhp Located at Major HAP Sources

Requirements for [Emergency Engines under 40 C.F.R. 63, Subpart ZZZZ (RICE); Firewater Pumps – Emission Unit Ids. P302, P1019 and P1020

1. Limitations and Standards

- 1.1. For emergency stationary CI RICE¹, you must meet the following requirements, except during periods of startup:
- a. Change oil and filter every 500 hours of operation or annually, whichever comes first;²
 - b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.³

During periods of startup you must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

¹ If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of 40 C.F.R. 63 Subpart ZZZZ, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

² Sources have the option to utilize an oil analysis program as described in 40 C.F.R. §63.6625(i) in order to extend the specified oil change requirement in Table 2c of 40 C.F.R. 63 Subpart ZZZZ.

³ Sources can petition the Administrator pursuant to the requirements of 40 C.F.R. §63.6(g) for alternative work practices.

[40 C.F.R. §63.6602, Table 2c, Row 1]

- 1.2. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 C.F.R. §63.6605(b)]

- 1.3. If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to

the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[40 C.F.R. §63.6640(a), Table 6, Row 9]

- 1.4. If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.
[40 C.F.R. §63.6625(f)]

- 1.5. If you own or operate a stationary CI engine that is subject to the work, operation or management practices in item 1 of Table 2c to 40 C.F.R. 63 Subpart ZZZZ (permit condition 13.1.2.), you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c to 40 C.F.R. 63 Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c to 40 C.F.R. 63 Subpart ZZZZ (permit condition 13.1.2.a.). The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine (permit condition 13.1.4.).
[40 C.F.R. §63.6625(i)]

- 1.6. *Requirements for emergency stationary RICE.* If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, you must operate the emergency stationary RICE according to the requirements in paragraphs (i) through (iii) of this permit condition. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (i) through (iii) of this permit condition, is prohibited. If you do not operate the engine according to the requirements in paragraphs (i) through (iii) of this permit condition, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.
 - (i) There is no time limit on the use of emergency stationary RICE in emergency situations.

 - (ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

 - (iii) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and

transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this condition as long as the power provided by the financial arrangement is limited to emergency power.

[40 C.F.R. §63.6640(f)(1) through (f)(4)]

2. Recordkeeping Requirements

2.1. You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate an existing stationary emergency RICE.

[40 C.F.R. §§63.6655(e) and 63.6655(e)(2)]

2.2. If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

[40 C.F.R. §§63.6655(f) and 63.6655(f)(1)]

3.0. Reporting Requirements

3.1. You must report each instance in which you did not meet each limitation in Table 2c to 40 C.F.R. 63 Subpart ZZZZ (condition 1.1.). These instances are deviations from the emission and operating limitations in 40 C.F.R. 63 Subpart ZZZZ. These deviations must be reported according to the requirements in 40 C.F.R. §63.6650 (permit condition 13.5.3.).

[40 C.F.R. §63.6640(b)]

3.2. You must also report each instance in which you did not meet the requirements in Table 8 to 40 C.F.R. 63 Subpart ZZZZ (Applicability of General Provisions to Subpart ZZZZ) that apply to you.

[40 C.F.R. §63.6640(e)]

3.3. The permittee must report all deviations as defined in 40 C.F.R. 63 Subpart ZZZZ in the semiannual monitoring report.

[40 C.F.R. §63.6650(f)]

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: P-1019	Emission unit name: #3 Emergency Fire Water Pump	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Fire pump used for site emergency services.

Manufacturer:	Model number:	Serial number:
Construction date: Prior to June 2006	Installation date: Prior to June 2006	Modification date(s):

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

420 hp

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> 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.

Diesel

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Diesel			

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

Diesel fueled (compression ignition) internal combustion engines for emergency use (less than or equal to 500 bhp) constructed prior to June 12, 2006, are covered by the following provisions of 40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE MACT). These provisions apply to #2, #3, and #4 diesel fueled firewater pumps.

Emission Limits and Other Requirements - 63.6602, Table 2c

Monitoring, Installation, Collection, Operation and Maintenance Requirements - 63.6625(e), (f), (h), and (i)

Continuous Compliance - 63.6605 & 63.6640(f)

Recordkeeping Requirements - 63.6655(a)(1), (a)(2), (a)(4), (a)(5), (e)(2), (f)(1) and 63.6660

General Provisions (40 CFR part 63) - Yes, except per 63.6645(a)(5), the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).

Summary of Requirements:

Operational, testing and maintenance checks limited to 100 hour/yr.

Non-emergency use is allowed but for only 50 hours per year that is applied to the 100 hrs/yr limit.

All hours of operation must be logged/documentated.

Non-resettable hour meters must be installed.

Change oil and filter every 500 hours of operation or annually, whichever comes first.

Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first.

Inspect hoses and belts every 1,000 hours or operation or annually, whichever comes first

Operate the engine in accordance with the manufacturer's emission-related written instructions or develop your own maintenance plan.

See attachment to this form for proposed permit language.

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.)

Records will be maintain of engine use and maintenance conducted.

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

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

Proposed Permit Language for Existing Emergency Compression Ignition Stationary Reciprocating Internal Combustion Engines Less Than or Equal to 500 bhp Located at Major HAP Sources

Requirements for [Emergency Engines under 40 C.F.R. 63, Subpart ZZZZ (RICE); Firewater Pumps – Emission Unit Ids. P302, P1019 and P1020

1. Limitations and Standards

- 1.1. For emergency stationary CI RICE¹, you must meet the following requirements, except during periods of startup:
- a. Change oil and filter every 500 hours of operation or annually, whichever comes first;²
 - b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.³

During periods of startup you must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

¹ If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of 40 C.F.R. 63 Subpart ZZZZ, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

² Sources have the option to utilize an oil analysis program as described in 40 C.F.R. §63.6625(i) in order to extend the specified oil change requirement in Table 2c of 40 C.F.R. 63 Subpart ZZZZ.

³ Sources can petition the Administrator pursuant to the requirements of 40 C.F.R. §63.6(g) for alternative work practices.

[40 C.F.R. §63.6602, Table 2c, Row 1]

- 1.2. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 C.F.R. §63.6605(b)]

- 1.3. If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to

the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[40 C.F.R. §63.6640(a), Table 6, Row 9]

- 1.4. If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.
[40 C.F.R. §63.6625(f)]

- 1.5. If you own or operate a stationary CI engine that is subject to the work, operation or management practices in item 1 of Table 2c to 40 C.F.R. 63 Subpart ZZZZ (permit condition 13.1.2.), you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c to 40 C.F.R. 63 Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c to 40 C.F.R. 63 Subpart ZZZZ (permit condition 13.1.2.a.). The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine (permit condition 13.1.4.).
[40 C.F.R. §63.6625(i)]

- 1.6. *Requirements for emergency stationary RICE.* If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, you must operate the emergency stationary RICE according to the requirements in paragraphs (i) through (iii) of this permit condition. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (i) through (iii) of this permit condition, is prohibited. If you do not operate the engine according to the requirements in paragraphs (i) through (iii) of this permit condition, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.
 - (i) There is no time limit on the use of emergency stationary RICE in emergency situations.

 - (ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

 - (iii) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and

transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this condition as long as the power provided by the financial arrangement is limited to emergency power.

[40 C.F.R. §63.6640(f)(1) through (f)(4)]

2. Recordkeeping Requirements

2.1. You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate an existing stationary emergency RICE.

[40 C.F.R. §§63.6655(e) and 63.6655(e)(2)]

2.2. If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

[40 C.F.R. §§63.6655(f) and 63.6655(f)(1)]

3.0. Reporting Requirements

3.1. You must report each instance in which you did not meet each limitation in Table 2c to 40 C.F.R. 63 Subpart ZZZZ (condition 1.1.). These instances are deviations from the emission and operating limitations in 40 C.F.R. 63 Subpart ZZZZ. These deviations must be reported according to the requirements in 40 C.F.R. §63.6650 (permit condition 13.5.3.).

[40 C.F.R. §63.6640(b)]

3.2. You must also report each instance in which you did not meet the requirements in Table 8 to 40 C.F.R. 63 Subpart ZZZZ (Applicability of General Provisions to Subpart ZZZZ) that apply to you.

[40 C.F.R. §63.6640(e)]

3.3. The permittee must report all deviations as defined in 40 C.F.R. 63 Subpart ZZZZ in the semiannual monitoring report.

[40 C.F.R. §63.6650(f)]

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: P-1020	Emission unit name: #4 Emergency Fire Water Pump	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Fire pump used for site emergency services.

Manufacturer:	Model number:	Serial number:
Construction date: Prior to June 2006	Installation date: Prior to June 2006	Modification date(s):

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

420 hp

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> 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.

Diesel

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Diesel			

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

Diesel fueled (compression ignition) internal combustion engines for emergency use (less than or equal to 500 bhp) constructed prior to June 12, 2006, are covered by the following provisions of 40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE MACT). These provisions apply to #2, #3, and #4 diesel fueled firewater pumps.

Emission Limits and Other Requirements - 63.6602, Table 2c

Monitoring, Installation, Collection, Operation and Maintenance Requirements - 63.6625(e), (f), (h), and (i)

Continuous Compliance - 63.6605 & 63.6640(f)

Recordkeeping Requirements - 63.6655(a)(1), (a)(2), (a)(4), (a)(5), (e)(2), (f)(1) and 63.6660

General Provisions (40 CFR part 63) - Yes, except per 63.6645(a)(5), the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).

Summary of Requirements:

Operational, testing and maintenance checks limited to 100 hour/yr.

Non-emergency use is allowed but for only 50 hours per year that is applied to the 100 hrs/yr limit.

All hours of operation must be logged/documentated.

Non-resettable hour meters must be installed.

Change oil and filter every 500 hours of operation or annually, whichever comes first.

Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first.

Inspect hoses and belts every 1,000 hours or operation or annually, whichever comes first

Operate the engine in accordance with the manufacturer's emission-related written instructions or develop your own maintenance plan.

See attachment to this form for proposed permit language.

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.)

Records will be maintain of engine use and maintenance conducted.

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

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

Proposed Permit Language for Existing Emergency Compression Ignition Stationary Reciprocating Internal Combustion Engines Less Than or Equal to 500 bhp Located at Major HAP Sources

Requirements for [Emergency Engines under 40 C.F.R. 63, Subpart ZZZZ (RICE); Firewater Pumps – Emission Unit Ids. P302, P1019 and P1020

1. Limitations and Standards

- 1.1. For emergency stationary CI RICE¹, you must meet the following requirements, except during periods of startup:
- a. Change oil and filter every 500 hours of operation or annually, whichever comes first;²
 - b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.³

During periods of startup you must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

¹ If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of 40 C.F.R. 63 Subpart ZZZZ, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

² Sources have the option to utilize an oil analysis program as described in 40 C.F.R. §63.6625(i) in order to extend the specified oil change requirement in Table 2c of 40 C.F.R. 63 Subpart ZZZZ.

³ Sources can petition the Administrator pursuant to the requirements of 40 C.F.R. §63.6(g) for alternative work practices.

[40 C.F.R. §63.6602, Table 2c, Row 1]

- 1.2. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 C.F.R. §63.6605(b)]

- 1.3. If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to

the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[40 C.F.R. §63.6640(a), Table 6, Row 9]

- 1.4. If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.
[40 C.F.R. §63.6625(f)]

- 1.5. If you own or operate a stationary CI engine that is subject to the work, operation or management practices in item 1 of Table 2c to 40 C.F.R. 63 Subpart ZZZZ (permit condition 13.1.2.), you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c to 40 C.F.R. 63 Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c to 40 C.F.R. 63 Subpart ZZZZ (permit condition 13.1.2.a.). The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine (permit condition 13.1.4.).
[40 C.F.R. §63.6625(i)]

- 1.6. *Requirements for emergency stationary RICE.* If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, you must operate the emergency stationary RICE according to the requirements in paragraphs (i) through (iii) of this permit condition. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (i) through (iii) of this permit condition, is prohibited. If you do not operate the engine according to the requirements in paragraphs (i) through (iii) of this permit condition, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.
 - (i) There is no time limit on the use of emergency stationary RICE in emergency situations.

 - (ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

 - (iii) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and

transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this condition as long as the power provided by the financial arrangement is limited to emergency power.

[40 C.F.R. §63.6640(f)(1) through (f)(4)]

2. Recordkeeping Requirements

2.1. You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate an existing stationary emergency RICE.

[40 C.F.R. §§63.6655(e) and 63.6655(e)(2)]

2.2. If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

[40 C.F.R. §§63.6655(f) and 63.6655(f)(1)]

3.0. Reporting Requirements

3.1. You must report each instance in which you did not meet each limitation in Table 2c to 40 C.F.R. 63 Subpart ZZZZ (condition 1.1.). These instances are deviations from the emission and operating limitations in 40 C.F.R. 63 Subpart ZZZZ. These deviations must be reported according to the requirements in 40 C.F.R. §63.6650 (permit condition 13.5.3.).

[40 C.F.R. §63.6640(b)]

3.2. You must also report each instance in which you did not meet the requirements in Table 8 to 40 C.F.R. 63 Subpart ZZZZ (Applicability of General Provisions to Subpart ZZZZ) that apply to you.

[40 C.F.R. §63.6640(e)]

3.3. The permittee must report all deviations as defined in 40 C.F.R. 63 Subpart ZZZZ in the semiannual monitoring report.

[40 C.F.R. §63.6650(f)]

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: P-319	Emission unit name: Center Sump Diesel Pump	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Emergency backup pump for center sump process sewer.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: MM/DD/YYYY	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

420 hp

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> 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.

Diesel

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Diesel			

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

Requirements covered under Class II General Permit G60-C054.

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: P-319	Emission unit name: Center Sump Pump	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Emergency backup pump for center sump process sewer.

Manufacturer:	Model number:	Serial number:
Construction date: 2013	Installation date: 2013	Modification date(s): MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

420 hp

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:
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***Fuel Usage Data* (fill out all applicable fields)**

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> 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.

Diesel

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Diesel			

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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 affected engine is used to power a sewer water diversion pump in the event of an unplanned outage of the primary electric powered pump.

Engines are subject to 40 CFR Part 60, Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. Subpart IIII provisions are referenced by 40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE MACT)

Applicable Subpart IIII provisions listed in Regulation 13 General Permit G60-C054. A copy of Permit G60-C054 is attached to this emission unit form.

Summary of Subpart IIII Requirements

- Fuel Requirements:
Sulfur content: 15 ppm maximum for non-road diesel fuel and either
 - minimum Cetane index of 40 or
 - a maximum aromatic content of 35 volume percent.
- Emission Standards
 - Table 1 to Subpart IIII of Part 60 - Must have manufacturer’s certification.
- Monitoring Requirements
 - engine must be equipped with a non-resettable run hours meter.
- Recordkeeping
 - Maintain a copy of engine manufacturer’s data indicating compliance with the emission standards.

Note: A request for a Class I administrative change to Permit G60-C054 is being submitted under separate cover letter to change the affected equipment description from “two emergency fire pumps” to **“two emergency sump pumps”**.

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.)

A copy of the manufacturer’s certification data will be maintained.
A record of the engine hours of operation will be maintained.

Are you in compliance with all applicable requirements for this emission unit? 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: T-CS	Emission unit name: Diesel Storage Tank - Center Sump	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Diesel storage tank backup pump for center sump process sewer.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: MM/DD/YYYY	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

420 hp

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> 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.

Diesel

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Diesel			

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

Requirements covered under Class II General Permit G60-C054.

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: EG-1	Emission unit name: Emergency Generator #1	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Emergency backup electric generator for the Emergency Operations Center (EOC).

Manufacturer:	Model number:	Serial number:
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Construction date: 2010	Installation date: 2010	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

420 hp

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:
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***Fuel Usage Data* (fill out all applicable fields)**

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> 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.

Diesel

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Diesel			

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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 affected engine is used to provide power in the event of an unexpected electric outage of the emergency operations center.

Engines are subject to 40 CFR Part 60, Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. Subpart IIII provisions are referenced by 40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE MACT)

Applicable Subpart IIII provisions listed in Regulation 13 Class II General Permit G60-C023. A copy of Permit G60-C054 is attached to this emission unit form.

Summary of Subpart IIII Requirements

- Fuel Requirements:
Sulfur content: 15 ppm maximum for non-road diesel fuel and either
 - minimum Cetane index of 40 or
 - a maximum aromatic content of 35 volume percent.
- Emission Standards
 - Table 1 to Subpart IIII of Part 60 - Must have manufacturer's certification.
- Monitoring Requirements
 - engine must be equipped with a non-resettable run hours meter.
- Recordkeeping
 - Maintain a copy of engine manufacturer's data indicating compliance with the emission standards.

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.)

A copy of the manufacturer's certification data will be maintained.
A record of the engine hours of operation will be maintained.

Are you in compliance with all applicable requirements for this emission unit? 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: P-629	Emission unit name: East Sump	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
East sump pump for #2 Powerhouse operations.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: MM/DD/YYYY	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> 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.
Diesel

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Diesel			

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	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)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential 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.).

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.

____ 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? ___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: P-354	Emission unit name: West Sump Diesel Pump	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Emergency backup pump for west sump process sewer.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: MM/DD/YYYY	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

420 hp

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> 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.

Diesel

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Diesel			

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

Requirements covered under Class II General Permit G60-C054.

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: T-WS	Emission unit name: Diesel Storage Tank - West Sump	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Diesel storage tank backup pump for west sump process sewer.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: MM/DD/YYYY	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

420 hp

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> 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.

Diesel

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Diesel			

<i>Emissions Data</i>			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)	NA	NA	
Nitrogen Oxides (NO _x)	NA	NA	
Lead (Pb)	NA	NA	
Particulate Matter (PM _{2.5})	NA	NA	
Particulate Matter (PM ₁₀)	NA	NA	
Total Particulate Matter (TSP)	NA	NA	
Sulfur Dioxide (SO ₂)	NA	NA	
Volatile Organic Compounds (VOC)	NA	NA	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
NA	NA	NA	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
NA	NA	NA	
<p>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.).</p> <p>NA</p>			

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.

Requirements covered under Class II General Permit G60-C054.

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: 100	Emission unit name: Gasoline Tank	List any control devices associated with this emission unit: Vapor Balance	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Tank			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: N/A	Installation date: 1985	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 4,000 gallons			
Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: 8,760 hrs/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
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: N/A		Type and Btu/hr rating of burners: N/A	
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. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<i>Emissions Data</i>			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)	N/A	N/A	
Nitrogen Oxides (NO _x)	N/A	N/A	
Lead (Pb)	N/A	N/A	
Particulate Matter (PM _{2.5})	N/A	N/A	
Particulate Matter (PM ₁₀)	N/A	N/A	
Total Particulate Matter (TSP)	N/A	N/A	
Sulfur Dioxide (SO ₂)	N/A	N/A	
Volatile Organic Compounds (VOC)	N/A	N/A	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
	N/A	N/A	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
<p>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.).</p> <p>Vapor Balance</p>			

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.

N/A

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.)

N/A

Are you in compliance with all applicable requirements for this emission unit? 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: 460	Emission unit name: VAT Tank	List any control devices associated with this emission unit: Closed Top	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Tank			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: N/A	Installation date: 1979	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 2,500 gallons			
Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: 8,760 hrs/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
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: N/A		Type and Btu/hr rating of burners: N/A	
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. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)	N/A	N/A	
Nitrogen Oxides (NO _x)	N/A	N/A	
Lead (Pb)	N/A	N/A	
Particulate Matter (PM _{2.5})	N/A	N/A	
Particulate Matter (PM ₁₀)	N/A	N/A	
Total Particulate Matter (TSP)	N/A	N/A	
Sulfur Dioxide (SO ₂)	N/A	N/A	
Volatile Organic Compounds (VOC)	N/A	N/A	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
<p>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.).</p> <p>N/A</p>			

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.

N/A

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.)

N/A

Are you in compliance with all applicable requirements for this emission unit? 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: 460	Emission unit name: General Maintenance Supplies	List any control devices associated with this emission unit: N/A
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Fugitives

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: N/A	Installation date: N/A	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
N/A

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: N/A
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Fuel Usage Data (fill out all applicable 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: N/A	Type and Btu/hr rating of burners: N/A
---	--

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.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<i>Emissions Data</i>			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)	N/A	N/A	
Nitrogen Oxides (NO _x)	N/A	N/A	
Lead (Pb)	N/A	N/A	
Particulate Matter (PM _{2.5})	N/A	N/A	
Particulate Matter (PM ₁₀)	N/A	N/A	
Total Particulate Matter (TSP)	N/A	N/A	
Sulfur Dioxide (SO ₂)	N/A	N/A	
Volatile Organic Compounds (VOC)	N/A	N/A	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
<p>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.).</p> <p>N/A</p>			

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.

N/A

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.)

N/A

Are you in compliance with all applicable requirements for this emission unit? 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: None Listed D010	Emission unit name: Collection Sump	List any control devices associated with this emission unit: Carbon Absorption (S-2)	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Sump			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: N/A	Installation date: 1988	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 5,000 gallons			
Maximum Hourly Throughput: 10,000 gal/hr	Maximum Annual Throughput: 10,400,000 gal/yr	Maximum Operating Schedule: 8,760 hrs/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired	
Maximum design heat input and/or maximum horsepower rating: N/A		Type and Btu/hr rating of burners: N/A	
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. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<i>Emissions Data</i>			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)	N/A	N/A	
Nitrogen Oxides (NO _x)	N/A	N/A	
Lead (Pb)	N/A	N/A	
Particulate Matter (PM _{2.5})	N/A	N/A	
Particulate Matter (PM ₁₀)	N/A	N/A	
Total Particulate Matter (TSP)	N/A	N/A	
Sulfur Dioxide (SO ₂)	N/A	N/A	
Volatile Organic Compounds (VOC)	N/A	N/A	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
<p>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.).</p> <p>N/A</p>			

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.

N/A

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.)

N/A

Are you in compliance with all applicable requirements for this emission unit? 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: F-1	Emission unit name: Filter Press (Sludge De-Watering Unit)	List any control devices associated with this emission unit: N/A
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Filter Press or sludge dewatering unit ("SDU") to filter approximately 36 cubic yards per day.

Manufacturer: Ware	Model number: N/A	Serial number: N/A
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Construction date: N/A	Installation date: 2014	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
N/A

Maximum Hourly Throughput: 36 cubic yards	Maximum Annual Throughput: 3120 cubic yards	Maximum Operating Schedule: 2,080 hrs/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	Type and Btu/hr rating of burners: N/A
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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.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO _x)	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	N/A	N/A
Particulate Matter (PM ₁₀)	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO ₂)	N/A	N/A
Volatile Organic Compounds (VOC)	0.1080	0.1100
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p>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.).</p> <p>Engineering estimates</p>		

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.

N/A

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.)

N/A

Are you in compliance with all applicable requirements for this emission unit? 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: T-6	Emission unit name: Lime Silo	List any control devices associated with this emission unit: Baghouse (015A)
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Lime Silo

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: N/A	Installation date: 1988	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
60 tons

Maximum Hourly Throughput: 3,000 lb/hr	Maximum Annual Throughput: 3,141,000 lb/yr	Maximum Operating Schedule: 8,760 hrs/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	Type and Btu/hr rating of burners: N/A
---	--

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.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<i>Emissions Data</i>			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)	N/A	N/A	
Nitrogen Oxides (NO _x)	N/A	N/A	
Lead (Pb)	N/A	N/A	
Particulate Matter (PM _{2.5})	N/A	N/A	
Particulate Matter (PM ₁₀)	N/A	N/A	
Total Particulate Matter (TSP)	0.12	0.003	
Sulfur Dioxide (SO ₂)	N/A	N/A	
Volatile Organic Compounds (VOC)	N/A	N/A	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
<p>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.).</p> <p>Engineering Estimate</p>			

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.

45 CSR 7
45 CSR 13, Permit No. R13-1033

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.)

45 CSR 13, Permit No. R13-1033

Are you in compliance with all applicable requirements for this emission unit? 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: T-10E	Emission unit name: 2 nd Stage Mix Tank	List any control devices associated with this emission unit: Carbon Adsorption (S-2)
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Tank

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: N/A	Installation date: 1988	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
7,000 gallons

Maximum Hourly Throughput: 10,000 gal/hr	Maximum Annual Throughput: 10,400,000 gal/yr	Maximum Operating Schedule: 8,760 hrs/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: N/A	Type and Btu/hr rating of burners: N/A
---	--

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.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<i>Emissions Data</i>			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)	N/A	N/A	
Nitrogen Oxides (NO _x)	N/A	N/A	
Lead (Pb)	N/A	N/A	
Particulate Matter (PM _{2.5})	N/A	N/A	
Particulate Matter (PM ₁₀)	N/A	N/A	
Total Particulate Matter (TSP)	N/A	N/A	
Sulfur Dioxide (SO ₂)	N/A	N/A	
Volatile Organic Compounds (VOC)	N/A	N/A	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
<p>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.).</p> <p>N/A</p>			

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.

N/A

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.)

N/A

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

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

ATTACHMENT E - Emission Unit Form

<i>Emission Unit Description</i>			
Emission unit ID number: T-7	Emission unit name: Ferric Chloride Tank	List any control devices associated with this emission unit: N/A	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Tank			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: N/A	Installation date: 1988	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 5,000 gallons			
Maximum Hourly Throughput: 100 gal/hr	Maximum Annual Throughput: 104,000 gal/yr	Maximum Operating Schedule: 8,760 hrs/yr	
Fuel Usage Data (fill out all applicable 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: N/A		Type and Btu/hr rating of burners: N/A	
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. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO _x)	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	N/A	N/A
Particulate Matter (PM ₁₀)	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO ₂)	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
	NA	NA
<p>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.).</p> <p>N/A</p>		

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.

N/A

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? 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: T-9	Emission unit name: 1st Stage Mix Tank	List any control devices associated with this emission unit: Carbon Adsorption (S-2)	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Tank			
Manufacturer: N/A	Model number: N/A	Serial number: N/A	
Construction date: N/A	Installation date: 1988	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 330,000 gallons			
Maximum Hourly Throughput: 10,000 gal/hr	Maximum Annual Throughput: 10,400,000 gal/yr	Maximum Operating Schedule: 8,760 hrs/yr	
<i>Fuel Usage Data (fill out all applicable fields)</i>			
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: N/A		Type and Btu/hr rating of burners: N/A	
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. N/A			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO _x)	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	N/A	N/A
Particulate Matter (PM ₁₀)	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO ₂)	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p>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.).</p> <p>N/A</p>		

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.

N/A

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.)

N/A

Are you in compliance with all applicable requirements for this emission unit? 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: 609	Emission unit name: HCL Acid Storage Tank	List any control devices associated with this emission unit: Scrubber (F-010)
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Tank

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: N/A	Installation date: 1990	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
12,000 gallons

Maximum Hourly Throughput: 10,000 gal/day	Maximum Annual Throughput: 10,000,000 gal/yr	Maximum Operating Schedule: 8,760 hrs/yr
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Fuel Usage Data (fill out all applicable 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: N/A	Type and Btu/hr rating of burners: N/A
---	--

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.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)	N/A	N/A	
Nitrogen Oxides (NO _x)	N/A	N/A	
Lead (Pb)	N/A	N/A	
Particulate Matter (PM _{2.5})	N/A	N/A	
Particulate Matter (PM ₁₀)	N/A	N/A	
Total Particulate Matter (TSP)	N/A	N/A	
Sulfur Dioxide (SO ₂)	N/A	N/A	
Volatile Organic Compounds (VOC)	N/A	N/A	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
HCl	0.004	0.0008	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	
N/A	N/A	N/A	
<p>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.).</p> <p>Engineering Estimate</p>			

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.

45 CSR 13, Permit No. R13 – 1248

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.)

6.2.2 Removal of HCl by scrubber 010F by proper operation and maintenance of equipment.

Are you in compliance with all applicable requirements for this emission unit? 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: T-8	Emission unit name: Aerobic Digester	List any control devices associated with this emission unit: N/A
--	--	--

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Digester

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: 09/02/1975	Installation date: N/A	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
10,000 gallons

Maximum Hourly Throughput: 10,000 gal/hr	Maximum Annual Throughput: 10,400,000 gal/yr	Maximum Operating Schedule: 8,760 hrs/yr
--	--	--

Fuel Usage Data (fill out all applicable 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: N/A	Type and Btu/hr rating of burners: N/A
---	--

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.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO _x)	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	N/A	N/A
Particulate Matter (PM ₁₀)	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO ₂)	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
	NA	NA
<p>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.).</p> <p>N/A</p>		

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.

N/A

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.)

N/A

Are you in compliance with all applicable requirements for this emission unit? 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: 608	Emission unit name: Leachate Tank	List any control devices associated with this emission unit: N/A
--	---	--

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Landfill leach water tank; carbon steel.

Manufacturer: N/A	Model number: N/A	Serial number: N/A
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Construction date: N/A	Installation date: 1988	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
422,000 gallons

Maximum Hourly Throughput: 21,000 gal/hr	Maximum Annual Throughput: 2,000,000 gal/yr	Maximum Operating Schedule: 8,760 hrs/yr
--	---	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___Yes <u> X </u> No	If yes, is it? NA ___ Indirect Fired ___ Direct Fired
Maximum design heat input and/or maximum horsepower rating: N/A	Type and Btu/hr rating of burners: N/A

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.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	N/A	N/A
Nitrogen Oxides (NO _x)	N/A	N/A
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	N/A	N/A
Particulate Matter (PM ₁₀)	N/A	N/A
Total Particulate Matter (TSP)	N/A	N/A
Sulfur Dioxide (SO ₂)	N/A	N/A
Volatile Organic Compounds (VOC)	0.00179	0.00783
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Toluene; Bis(2-ethylhexyl)phthalate; Chlorobenzene; Dichloromethane and Naphthalene	0.000765	0.00335
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
<p>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.).</p> <p>Analytical sample results from landfill flow rate and vent rate.</p>		

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.

NA

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.)

N/A

Are you in compliance with all applicable requirements for this emission unit? 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: TCP	Emission unit name: E-TCP	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
WWTU cationic polymer tank.

Manufacturer: NA	Model number:	Serial number:
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Construction date:	Installation date:	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

Maximum Hourly Throughput: NA	Maximum Annual Throughput: NA	Maximum Operating Schedule: 8760 hrs.
---	---	---

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
--	--

Maximum design heat input and/or maximum horsepower rating: NA	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.

NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA	NA	NA	NA

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

NA

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: T-4582	Emission unit name: 50% Caustic Tank	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Tank

Manufacturer: NA	Model number:	Serial number:
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Construction date: MM/DD/	Installation date: 06/30/1988	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

280,000

Maximum Hourly Throughput: NA	Maximum Annual Throughput: NA	Maximum Operating Schedule: NA
---	---	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: NA	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.

NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA	NA	NA	NA

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

NA

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: T-4583	Emission unit name: 50/20% Caustic Tank	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Tank

Manufacturer: NA	Model number:	Serial number:
----------------------------	----------------------	-----------------------

Construction date: MM/DD/1988	Installation date: 02/08/1981	Modification date(s): MM/DD/YYYY
---	---	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

280,000

Maximum Hourly Throughput: NA	Maximum Annual Throughput: NA	Maximum Operating Schedule: NA
---	---	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: NA	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.

NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA	NA	NA	NA

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
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.). NA		

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.

NA

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: T-4585	Emission unit name: 20% Caustic Tank	List any control devices associated with this emission unit: None
---	--	---

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Tank

Manufacturer: NA	Model number:	Serial number:
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Construction date: MM/DD	Installation date: 11/18/1981	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

280,000

Maximum Hourly Throughput: NA	Maximum Annual Throughput: NA	Maximum Operating Schedule: NA
---	---	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___Direct Fired
--	---

Maximum design heat input and/or maximum horsepower rating: NA	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.

NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA	NA	NA	NA

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

NA

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: T-601	Emission unit name: Caustic Tank	List any control devices associated with this emission unit: None
--	--	---

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Tank

Manufacturer: NA	Model number:	Serial number:
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Construction date: MM/DD/	Installation date: 09/02/1975	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

10,000

Maximum Hourly Throughput: NA	Maximum Annual Throughput: NA	Maximum Operating Schedule: NA
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: NA	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.

NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA	NA	NA	NA

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

NA

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: T-603	Emission unit name: Phosphoric Acid Tank	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Tank

Manufacturer: NA	Model number:	Serial number:
----------------------------	----------------------	-----------------------

Construction date: MM/DD/	Installation date: 11/05/1995	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

22,000

Maximum Hourly Throughput: NA	Maximum Annual Throughput: NA	Maximum Operating Schedule: NA
---	---	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: NA	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.

NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA	NA	NA	NA

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

NA

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: T-605	Emission unit name: Aeration Basin	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Tank

Manufacturer: NA	Model number:	Serial number:
----------------------------	----------------------	-----------------------

Construction date: MM/DD/	Installation date: 10/22/1987	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

3,680,000

Maximum Hourly Throughput: NA	Maximum Annual Throughput: NA	Maximum Operating Schedule: NA
---	---	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: NA	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.

NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA	NA	NA	NA

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

NA

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: T-606	Emission unit name: Aeration Basin	List any control devices associated with this emission unit: None
--	--	---

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Tank

Manufacturer: NA	Model number:	Serial number:
----------------------------	----------------------	-----------------------

Construction date: MM/DD/	Installation date: 10/22/1987	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

3,680,000

Maximum Hourly Throughput: NA	Maximum Annual Throughput: NA	Maximum Operating Schedule: NA
---	---	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: NA	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.

NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA	NA	NA	NA

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
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.). NA		

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.

NA

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: T-607	Emission unit name: Diversion Tank	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Tank

Manufacturer: NA	Model number:	Serial number:
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Construction date: MM/DD/	Installation date: 10/22/1987	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

1,500,000

Maximum Hourly Throughput: NA	Maximum Annual Throughput: NA	Maximum Operating Schedule: NA
---	---	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: NA	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.

NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA	NA	NA	NA

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

NA

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: T-615	Emission unit name: E-615	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Equalization Tank

Manufacturer: NA	Model number:	Serial number:
----------------------------	----------------------	-----------------------

Construction date:	Installation date:	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1,000,000 gallons

Maximum Hourly Throughput: NA	Maximum Annual Throughput: NA	Maximum Operating Schedule: 8760
---	---	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: NA	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.
NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA	NA	NA	NA

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

NA

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: THIC	Emission unit name: E-THIC	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
WWTU thickener tank.

Manufacturer: NA	Model number:	Serial number:
----------------------------	----------------------	-----------------------

Construction date:	Installation date:	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

Maximum Hourly Throughput: NA	Maximum Annual Throughput: NA	Maximum Operating Schedule: 8760 hrs
---	---	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: NA	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.

NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA	NA	NA	NA

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

NA

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: TSC-1	Emission unit name: Secondary Clarifier	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Tank

Manufacturer: NA	Model number:	Serial number:
----------------------------	----------------------	-----------------------

Construction date:	Installation date:	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
60 ft dia

Maximum Hourly Throughput: NA	Maximum Annual Throughput: NA	Maximum Operating Schedule: 8760 hrs
---	---	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
--	--

Maximum design heat input and/or maximum horsepower rating: NA	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.
NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA	NA	NA	NA

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

NA

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: TSC-2	Emission unit name: Secondary Clarifier	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Tank

Manufacturer: NA	Model number:	Serial number:
----------------------------	----------------------	-----------------------

Construction date:	Installation date:	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
60 ft dia

Maximum Hourly Throughput: NA	Maximum Annual Throughput: NA	Maximum Operating Schedule: 8760 hrs
---	---	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: NA	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.
NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA	NA	NA	NA

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

NA

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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: TSC-3	Emission unit name: Secondary Clarifier	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Tank

Manufacturer: NA	Model number:	Serial number:
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Construction date:	Installation date:	Modification date(s):
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
60 ft dia

Maximum Hourly Throughput: NA	Maximum Annual Throughput: NA	Maximum Operating Schedule: 8760 hrs
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes <input checked="" type="checkbox"/> No	If yes, is it? ___ Indirect Fired ___ Direct Fired
---	--

Maximum design heat input and/or maximum horsepower rating: NA	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.
NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA	NA	NA	NA

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO _x)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter (PM _{2.5})	NA	NA
Particulate Matter (PM ₁₀)	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO ₂)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
NA	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
NA	NA	NA
<p>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.).</p> <p>NA</p>		

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.

NA

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.)

NA

Are you in compliance with all applicable requirements for this emission unit? 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:
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: MM/DD/YYYY	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes ___ 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

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	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)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential 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.).

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.

____ 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? ___Yes ___No

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

Attachment F was omitted.

Refer to Attachment H.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: D-941	List all emission units associated with this control device. Bin Vent Filter; 485R
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Manufacturer: WRC Industrial Sales	Model number: BV 2596	Installation date: 1998
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Type of Air Pollution Control Device:

<input checked="" type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> 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
PM	100%	99%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

- 235 ft² cloth

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.** Device emission limitations and standards already established under existing Title V permit.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- Visible emissions monitored monthly.
- Inspect bin filter system monthly.
- Perform material balance.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: D-941	List all emission units associated with this control device. Bin Vent Filter; 485R
---	--

Manufacturer: WRC Industrial Sales	Model number: BV 2596	Installation date: 1998
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Type of Air Pollution Control Device:

<input checked="" type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> 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
PM	100%	99%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

- 235 ft² cloth

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.** Device emission limitations and standards already established under existing Title V permit.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- Visible emissions monitored monthly.
- Inspect bin filter system monthly.
- Perform material balance.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: D-941	List all emission units associated with this control device. Bin Vent Filter; 485R	
Manufacturer: WRC Industrial Sales	Model number: BV 2596	Installation date: 1998
Type of Air Pollution Control Device:		
<input checked="" type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> 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
PM	100%	99%
Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).		
<ul style="list-style-type: none"> • 235 ft² cloth 		
Is this device subject to the CAM requirements of 40 C.F.R. 64? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If Yes, Complete ATTACHMENT H		
If No, Provide justification. Device emission limitations and standards already established under existing Title V permit.		
Describe the parameters monitored and/or methods used to indicate performance of this control device.		
<ul style="list-style-type: none"> • Certified-V visible emissions monitored monthly. • Must operate while loading silo. • Inspect bin filter system monthly. • <u>Perform material balance.</u> 		

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ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: D-901	List all emission units associated with this control device. Baghouse; 485Q
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Manufacturer: United Conveyor Corporation	Model number: 41-W-72	Installation date: 1996
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Type of Air Pollution Control Device:

<input checked="" type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> 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
PM	100%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

- 355ft² cloth
- One compartment baghouse system with a gas flow rate into the collector at 851 ACFM @ 200 °F and 11 PSIA.

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.** Device emission limitations and standards already established under existing Title V permit.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- Visible emissions monitored monthly.
- Inspect baghouse system monthly.
- Perform material balance.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: D-900	List all emission units associated with this control device. Baghouse; 485P
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Manufacturer: United Conveyor Corporation	Model number: 41-W-72	Installation date: 1996
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Type of Air Pollution Control Device:

<input checked="" type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> 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
PM	100%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

- 355ft² cloth
- One compartment baghouse system with a gas flow rate into the collector at 851 ACFM @ 200 °F and 11 PSIA

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.** Device emission limitations and standards already established under existing Title V permit.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- Visible emissions monitored monthly.
- Inspect baghouse system monthly.
- Perform material balance.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: D-905	List all emission units associated with this control device. Silo Bin Filter, 4850
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Manufacturer: United Conveyor Corporation	Model number: 41-W-72	Installation date: 1996
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Type of Air Pollution Control Device:

<input checked="" type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> 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
PM	100%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

- 132 ft² cloth
- One compartment baghouse system with a gas flow rate into the collector at 460 ACFM @ 150 °F and 14.6 PSIA.

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.** Device emission limitations and standards already established under existing Title V permit.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- Visible emissions monitored monthly.
- Inspect bin filter system monthly.
- Perform material balance.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: D-916	List all emission units associated with this control device. Filter, 480I
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Manufacturer: Sly, Inc.	Model number: IDF-CF-2-4	Installation date: 1998
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Type of Air Pollution Control Device:

<input checked="" type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> 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
PM	100%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

- 1,500 ACFM
- 640 ft² cloth

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.** Device emission limitations and standards already established under existing Title V permit.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- Visible emissions monitored monthly.
- Inspect HEPA filter system monthly.
- Perform material balance.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 1C	List all emission units associated with this control device. ESP; 480A
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Manufacturer: Buell-Environmental	Model number: BA 1.1X31K444-2.3P	Installation date: 1978
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Type of Air Pollution Control Device:

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input checked="" type="checkbox"/> 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
PM	100%	99.7%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

- Flow rate = 194,000 CFM @ 684 °F and 14.7 PSIA.

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.** Device emission limitations and standards already established under existing Title V permit.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- Quantity of coal consumed < 317,000 tons per year.
- Particulate matter stack test frequency based on recent test results per 45CSR2A
- Certified COM on stack.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 2C	List all emission units associated with this control device. ESP; 480A
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Manufacturer: Buell-Environmental	Model number: BA 1.1X31K444-2.3P	Installation date: 1978
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Type of Air Pollution Control Device:

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input checked="" type="checkbox"/> 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
PM	100%	99.7%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

- Flow rate = 194,000 CFM @ 684 °F and 14.7 PSIA.

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.** Device emission limitations and standards already established under existing Title V permit.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- Quantity of coal consumed < 317,000 tons per year.
- Particulate matter stack test frequency based on recent test results per 45CSR2A.
- Certified COM on stack.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 3C	List all emission units associated with this control device. ESP; 480A
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Manufacturer: Buell-Environmental	Model number: BA 1.1X31K444-2.3P	Installation date: 1978
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Type of Air Pollution Control Device:

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input checked="" type="checkbox"/> 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
PM	100%	99.7%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

- Flow rate = 194,000 CFM @ 684 °F and 14.7 PSIA.

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.** Device emission limitations and standards already established under existing Title V permit.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- Quantity of coal consumed < 317,000 tons per year.
- Particulate matter stack test frequency based on recent test results per 45CSR2A
- Certified COM on stack.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: L-485	List all emission units associated with this control device. Baghouse; 485L
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Manufacturer: N/A	Model number: N/A	Installation date: 1978
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Type of Air Pollution Control Device:

<input checked="" type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> 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
PM	100%	99%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

- 1,323 ft² cloth

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.** Device emission limitations and standards already established under existing Title V permit.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- Perform material balance.
- Inspect baghouse system monthly.
- Visible emissions monitored monthly.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: N-485	List all emission units associated with this control device. Baghouse; 485N
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Manufacturer: N/A	Model number: N/A	Installation date: 1978
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Type of Air Pollution Control Device:

<input checked="" type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> 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
PM	100%	99%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

- 1,232 ft² cloth

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.** Device emission limitations and standards already established under existing Title V permit.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- Perform material balance.
- Inspect baghouse system monthly.
- Visible emissions monitored monthly.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: S-1	List all emission units associated with this control device. See Attachment D; -T-6 Lime Storage Silo; 015A Baghouse
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Manufacturer: Mikro-Pulsaure Bin Vent	Model number: 1658-30	Installation date: 1988
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Type of Air Pollution Control Device:

<input checked="" type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> 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
PM	100%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

- 151 ft² cloth
- 200 °F @ 90-110 PSIG

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.**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- Material balances around the baghouse/filter systems.
- The baghouse/filter system shall be inspected monthly.
- Visible emissions monitored monthly.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: S-2	List all emission units associated with this control device. See Attachment D; Collection Sump ; 2 nd Stage Mix Tank (T-10E); 1 st Stage Mix Tank (T-9)
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Manufacturer: N/A	Model number: N/A	Installation date: 1988
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Type of Air Pollution Control Device:

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input checked="" type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> 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
VOC	100%	99%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

- 1,800 lbs carbon

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.** Device emission limitations and standards already established under existing Title V permit.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

N/A.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: F-010	List all emission units associated with this control device. See Attachment D; Tank 609 HCl Acid Storage Tank (010F)
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Manufacturer: N/A	Model number: N/A	Installation date: 1990
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Type of Air Pollution Control Device:

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input type="checkbox"/> Flare	<input checked="" type="checkbox"/> Other (describe) Countercurrent packed-bed
<input type="checkbox"/> Wet Plate Electrostatic Precipitator		<input type="checkbox"/> 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
HCL	100%	99.8%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

- Flow rate = 4 gpm
- Liquor pressure 75 PSIA
- Gas flow rate 5.6 ACFM

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.** Device emission limitations and standards already established under existing Title V permit.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

- Maintain preventative maintenance plan.

ATTACHMENT H - Compliance Assurance Monitoring (CAM) Plan Form

For definitions and information about the CAM rule, please refer to 40 CFR Part 64. Additional information (including guidance documents) may also be found at <http://www.epa.gov/ttn/emc/cam.html>

CAM APPLICABILITY DETERMINATION

1) Does the facility have a PSEU (Pollutant-Specific Emissions Unit considered separately with respect to **EACH** regulated air pollutant) that is subject to CAM (40 CFR Part 64), which must be addressed in this CAM plan submittal? To determine applicability, a PSEU must meet **all** of the following criteria (*If No, then the remainder of this form need not be completed*): YES NO

- a. The PSEU is located at a major source that is required to obtain a Title V permit;
- b. The PSEU is subject to an emission limitation or standard for the applicable regulated air pollutant that is **NOT** exempt;

LIST OF EXEMPT EMISSION LIMITATIONS OR STANDARDS:

- NSPS (40 CFR Part 60) or NESHAP (40 CFR Parts 61 and 63) proposed after 11/15/1990.
 - Stratospheric Ozone Protection Requirements.
 - Acid Rain Program Requirements.
 - Emission Limitations or Standards for which a WVDEP Division of Air Quality Title V permit specifies a continuous compliance determination method, as defined in 40 CFR §64.1.
 - An emission cap that meets the requirements specified in 40 CFR §70.4(b)(12).
- c. The PSEU uses an add-on control device (as defined in 40 CFR §64.1) to achieve compliance with an emission limitation or standard;
 - d. The PSEU has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than the Title V Major Source Threshold Levels; AND
 - e. The PSEU is **NOT** an exempt backup utility power emissions unit that is municipally-owned.

BASIS OF CAM SUBMITTAL

2) Mark the appropriate box below as to why this CAM plan is being submitted as part of an application for a Title V permit:

RENEWAL APPLICATION. **ALL** PSEUs for which a CAM plan has **NOT** yet been approved need to be addressed in this CAM plan submittal.

INITIAL APPLICATION (submitted after 4/20/98). **ONLY** large PSEUs (i. e., PSEUs with potential post-control device emissions of an applicable regulated air pollutant that are equal to or greater than Major Source Threshold Levels) need to be addressed in this CAM plan submittal.

SIGNIFICANT MODIFICATION TO LARGE PSEUs. **ONLY** large PSEUs being modified after 4/20/98 need to be addressed in this cam plan submittal. For large PSEUs with an approved CAM plan, Only address the appropriate monitoring requirements affected by the significant modification.

3) ^a BACKGROUND DATA AND INFORMATION

Complete the following table for all PSEUs that need to be addressed in this CAM plan submittal. This section is to be used to provide background data and information for each PSEU in order to supplement the submittal requirements specified in 40 CFR §64.4. If additional space is needed, attach and label accordingly.

PSEU DESIGNATION	DESCRIPTION	POLLUTANT	CONTROL DEVICE	^b EMISSION LIMITATION or STANDARD	^c MONITORING REQUIREMENT
<u>EXAMPLE</u> Boiler No. 1	Wood-Fired Boiler	PM	Multiclone	45CSR§2-4.1.c.; 9.0 lb/hr	Monitor pressure drop across multiclone: Weekly inspection of multiclone

^a If a control device is common to more than one PSEU, one monitoring plan may be submitted for the control device with the affected PSEUs identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a). If a single PSEU is controlled by more than one control device similar in design and operation, one monitoring plan for the applicable control devices may be submitted with the applicable control devices identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a).

^b Indicate the emission limitation or standard for any applicable requirement that constitutes an emission limitation, emission standard, or standard of performance (as defined in 40 CFR §64.1).

^c Indicate the monitoring requirements for the PSEU that are required by an applicable regulation or permit condition.

CAM MONITORING APPROACH CRITERIA

Complete this section for **EACH** PSEU that needs to be addressed in this CAM plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide monitoring data and information for **EACH** indicator selected for **EACH** PSEU in order to meet the monitoring design criteria specified in 40 CFR §64.3 and §64.4. If more than two indicators are being selected for a PSEU or if additional space is needed, attach and label accordingly with the appropriate PSEU designation, pollutant, and indicator numbers.

4a) PSEU Designation:	4b) Pollutant:	4c) ^a Indicator No. 1:	4d) ^a Indicator No. 2:
5a) GENERAL CRITERIA Describe the <u>MONITORING APPROACH</u> used to measure the indicators:			
^b Establish the appropriate <u>INDICATOR RANGE</u> or the procedures for establishing the indicator range which provides a reasonable assurance of compliance:			
5b) PERFORMANCE CRITERIA Provide the <u>SPECIFICATIONS FOR OBTAINING REPRESENTATIVE DATA</u> , such as detector location, installation specifications, and minimum acceptable accuracy:			
^c For new or modified monitoring equipment, provide <u>VERIFICATION PROCEDURES</u> , including manufacturer's recommendations, <u>TO CONFIRM THE OPERATIONAL STATUS</u> of the monitoring:			
Provide <u>QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PRACTICES</u> that are adequate to ensure the continuing validity of the data, (i.e., daily calibrations, visual inspections, routine maintenance, RATA, etc.):			
^d Provide the <u>MONITORING FREQUENCY</u> :			
Provide the <u>DATA COLLECTION PROCEDURES</u> that will be used:			
Provide the <u>DATA AVERAGING PERIOD</u> for the purpose of determining whether an excursion or exceedance has occurred:			

^a Describe all indicators to be monitored which satisfies 40 CFR §64.3(a). Indicators of emission control performance for the control device and associated capture system may include measured or predicted emissions (including visible emissions or opacity), process and control device operating parameters that affect control device (and capture system) efficiency or emission rates, or recorded findings of inspection and maintenance activities.

^b Indicator Ranges may be based on a single maximum or minimum value or at multiple levels that are relevant to distinctly different operating conditions, expressed as a function of process variables, expressed as maintaining the applicable indicator in a particular operational status or designated condition, or established as interdependent between more than one indicator. For CEMS, COMS, or PEMS, include the most recent certification test for the monitor.

^c The verification for operational status should include procedures for installation, calibration, and operation of the monitoring equipment, conducted in accordance with the manufacturer's recommendations, necessary to confirm the monitoring equipment is operational prior to the commencement of the required monitoring.

^d Emission units with post-control PTE ≥ 100 percent of the amount classifying the source as a major source (i.e., Large PSEU) must collect four or more values per hour to be averaged. A reduced data collection frequency may be approved in limited circumstances. Other emission units must collect data at least once per 24 hour period.

RATIONALE AND JUSTIFICATION

Complete this section for EACH PSEU that needs to be addressed in this CAM plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide rationale and justification for the selection of EACH indicator and monitoring approach and EACH indicator range in order to meet the submittal requirements specified in 40 CFR §64.4.

6a) PSEU Designation:

6b) Regulated Air Pollutant:

7) **INDICATORS AND THE MONITORING APPROACH:** Provide the rationale and justification for the selection of the indicators and the monitoring approach used to measure the indicators. Also provide any data supporting the rationale and justification. Explain the reasons for any differences between the verification of operational status or the quality assurance and control practices proposed, and the manufacturer's recommendations. (If additional space is needed, attach and label accordingly with the appropriate PSEU designation and pollutant):

8) **INDICATOR RANGES:** Provide the rationale and justification for the selection of the indicator ranges. The rationale and justification shall indicate how EACH indicator range was selected by either a COMPLIANCE OR PERFORMANCE TEST, a TEST PLAN AND SCHEDULE, or by ENGINEERING ASSESSMENTS. Depending on which method is being used for each indicator range, include the specific information required below for that specific indicator range. (If additional space is needed, attach and label accordingly with the appropriate PSEU designation and pollutant):

- COMPLIANCE OR PERFORMANCE TEST (Indicator ranges determined from control device operating parameter data obtained during a compliance or performance test conducted under regulatory specified conditions or under conditions representative of maximum potential emissions under anticipated operating conditions. Such data may be supplemented by engineering assessments and manufacturer's recommendations). The rationale and justification shall INCLUDE a summary of the compliance or performance test results that were used to determine the indicator range, and documentation indicating that no changes have taken place that could result in a significant change in the control system performance or the selected indicator ranges since the compliance or performance test was conducted.
- TEST PLAN AND SCHEDULE (Indicator ranges will be determined from a proposed implementation plan and schedule for installing, testing, and performing any other appropriate activities prior to use of the monitoring). The rationale and justification shall INCLUDE the proposed implementation plan and schedule that will provide for use of the monitoring as expeditiously as practicable after approval of this CAM plan, except that in no case shall the schedule for completing installation and beginning operation of the monitoring exceed 180 days after approval.
- ENGINEERING ASSESSMENTS (Indicator Ranges or the procedures for establishing indicator ranges are determined from engineering assessments and other data, such as manufacturers' design criteria and historical monitoring data, because factors specific to the type of monitoring, control device, or PSEU make compliance or performance testing unnecessary). The rationale and justification shall INCLUDE documentation demonstrating that compliance testing is not required to establish the indicator range.

RATIONALE AND JUSTIFICATION:

There are currently no pollutant-specific emission units subject to the Compliance Assurance Monitoring requirements in 40CFR64 associated with the Group 1 emissions units, which includes the No. 1 Steam Plant and ancillary operations, No. 2 Steam Plant and ancillary operations, and Wastewater Treatment Unit. Units are subject to the emission limitations or standards of 40CFR63 Subpart EEE (HWC MACT), subject to previous emission limitations or standards established under the Group 1 Title V Permit, or add-on control devices have not been installed to meet an emission limitation or standard. Therefore, the CAM is not applicable.

Table 1
Group 1 Monitoring, Recordkeeping and Reporting Summary

Equipment Monitored	Monitoring Requirements	Frequency	Control Limit
<u>NO. 2 STEAM PLANT, Boilers 10, 11, 12</u>			
NA	Quantity of Coal Used	Annual	317,000 tons/yr
NA	Coal sulfur Concentration	Per Analysis	≤ 1.2%
Common Stack	Particulate Matter Stack Test	Testing frequency based on 45CSR2A	50 lb/hr
Common Stack	Sulfur Dioxide Stack Test	Testing frequency based on recent test results per 45CSR10A	NA
Common Stack CEMS	Sulfur Dioxide Report	Monthly	NA
Coal Bunker Baghouses (485L & 485N)	Visual Emissions	Monthly	20% Opacity
	Inspect Baghouses	Monthly	NA
	Perform Material Balance	Annual	1.9 lb/hr each
Baghouse (485M)	Visual Emissions	Monthly	20% Opacity
	Inspect Baghouse	Monthly	NA
	Perform Material Balance	Annual	14.0 lb/hr

**Table 1
Group 1 Monitoring, Recordkeeping and Reporting Summary**

Equipment Monitored	Monitoring Requirements	Frequency	Control Limit
Lime Silo Bin Filter (D-941)	Visual Emissions	Monthly	20% Opacity
	Inspect Bin Filter System	Monthly	NA
	Perform Material Balance	Annual	732.2 lb/yr PM 73.2 lb/yr PM10
Flyash Storage Silo (D-910)	Flyash Throughput	Rolling 12 Month Total	33,150 tons/yr
Lime Storage Silo (D-940)	Total Unloading Time	Start to Finish	64.0 hrs/yr
	Visual Emissions	Each Unloading	20% Opacity
Flyash Silo Bin Filter (D-905)	Visual Emissions	Monthly	20% Opacity
	Inspect Bin Filter System	Monthly	NA
	Perform Material Balance	Annual	6.75 tons/yr
Flyash Silo Baghouses (D-900 & D-901)	Visual Emissions	Monthly	20% opacity
	Inspect Baghouse System	Monthly	NA
	Perform Material Balance	Annual	14.23 tons/yr total
Truck Fill Line Filter (D-916)	Visual Emissions	Monthly	20% Opacity
	Inspect HEPA Filter Operation	Monthly	NA
	Perform Material Balance	Annual	945.8 lb/yr PM 94.6 lb/yr PM10
Truck Fill Line	Operating Hours During Loading	During Loading	1,840 hrs/yr
	Maintain Water Spray On Fill Line During Loading Conventional Trucks	NA	NA
NOx CEMS	NOx Budget Program	Ozone Season	No longer valid for Non-EGU's.

**Table 1
Group 1 Monitoring, Recordkeeping and Reporting Summary**

Equipment Monitored	Monitoring Requirements	Frequency	Control Limit
<u>WWTU</u>			
Lime Silo Baghouse (S-1)	Visual Emissions	Monthly	20% Opacity
	Inspect Baghouse System	Monthly	NA
	Perform Material Balance	Annual	6.48 lbs/yr
HCl Scrubber (F-010)	Maintain Preventative Maintenance Plan	NA	NA
<u>Natural Gas Fired Industrial Boilers</u>			
Fuel Usage	Annual limitation of 692 mmcf	12-month rolling average	692 mmcf
Gas Quality	Use of pipeline quality natural gas	Annual Gas Quality Records	NA
Inspection	Annual tune-ups per Subpart DDDDD Maintain Records	Annually	NA

#2 Powerhouse Emissions

Hours of Operation:		
	Hours	% of Total
Boiler 10:	6,561	40%
Boiler 11:	5,506	33%
Boiler 12:	4,507	27%
Total:	16,574	100%

2014 Total Fuel Usage				
Gas		Coal		
(mmBtu)	(mmcf)	Tons	% Sulfur	% Ash
2,069,488	2,009	81,191	0.84%	10.63%

Boiler Emission Data:

Particulates (tpy)			
PM Filter	PM Cond	PM10 Filter	PM2.5 Filter
34.53	57.00	23.31	10.36

SO2 (tpy)	NOx (tpy)		
	Coal	Gas	Total
1,296	893	281.3	1,174

CO (tpy)			VOC (tpy)		
Coal	Gas	Total	Coal	Gas	Total
20.3	84.4	104.68	2.44	5.53	7.96

Acid Mist & Hg		
HCl from Coal (tpy)	HF from Coal (tpy)	Mercury from Coal (tpy)
48.7	6.09	0.006

Greenhouse Gases						
CO2 (tpy)			Methane (tpy)			Nitrous Oxide (tpy)
Coal	Gas	Total	Coal	Gas	Total	Coal
213,674	116	213,791	1.62	2.31	3.93	1.22

#2 Powerhouse Emissions

PAH/HAP VOC/Metal Emission Data:

Chemical	Emission Factor (lb/ton)	Emissions (lbs/yr)	Emission (tons/yr)
PAH			
Diphenyl	1.7E-06	0.138	0.000
Acenaphthene	5.1E-07	0.041	0.000
Acenaphthylene	2.5E-07	0.020	0.000
Anthracene	2.1E-07	0.017	0.000
Benzo(a)anthracene	8.0E-08	0.006	0.000
Benzo(b,j,k)fluoranthene	1.1E-07	0.009	0.000
Benzo(g,h,i)perylene	2.7E-08	0.002	0.000
Chrysene	1.0E-07	0.008	0.000
Fluoranthene	7.1E-07	0.058	0.000
Fluorene	9.1E-07	0.074	0.000
Naphthalene	1.3E-05	1.055	0.001
Phenanthrene	2.7E-06	0.219	0.000
Pyrene	3.3E-07	0.027	0.000
5-Methyl chrysene	2.2E-08	0.002	0.000
VOC			
Acetaldehyde	5.7E-04	46.279	0.023
Acetophenone	1.5E-05	1.218	0.001
Acrolein	2.9E-04	23.545	0.012
Benzene	1.3E-03	105.548	0.053
Benzyl Chloride	7.0E-04	56.834	0.028
Bis(2-ethylhexyl)phthalate	7.3E-05	5.927	0.003
Bromoform	3.9E-05	3.166	0.002
Carbon Disulfide	1.3E-04	10.555	0.005
2-Chloroacetophenone	7.0E-06	0.568	0.000
Chlorobenzene	2.2E-05	1.786	0.001
Chloroform	5.9E-05	4.790	0.002
Isopropylbenzene	5.3E-06	0.430	0.000
Cyanide	2.5E-03	202.978	0.101
2,4-Dinitrotoluene	2.8E-07	0.023	0.000
Dimethyl Sulfate	4.8E-05	3.897	0.002
Ethylbenzene	9.4E-05	7.632	0.004
Ethyl Chloride	4.2E-05	3.410	0.002
Ethylene Dichloride	4.0E-05	3.248	0.002
Ethylene Dibromide	1.2E-06	0.097	0.000
Formaldehyde	2.4E-04	19.486	0.010
Hexane	6.7E-05	5.440	0.003
Isophorone	5.8E-04	47.091	0.024
Methyl Bromide	1.6E-04	12.991	0.006
Chloromethane	5.3E-04	43.031	0.022
Methyl Ethyl Ketone	3.9E-04	31.664	0.016
Methyl Hydrazine	1.7E-04	13.802	0.007
Methyl Methacrylate	2.0E-05	1.624	0.001
Methyl tert butyl ether	3.5E-05	2.842	0.001
Methylene Chloride	2.9E-04	23.545	0.012
Phenol	1.6E-05	1.299	0.001
Propionaldehyde	3.8E-04	30.853	0.015
Tetrachloroethylene	4.3E-05	3.491	0.002
Toluene	2.4E-04	19.486	0.010
1,1,1-Trichloroethane	2.0E-05	1.624	0.001

#2 Powerhouse Emissions

continued			
Chemical	Emission Factor (lb/ton)	Emissions (lbs/yr)	Emission (tons/yr)
Styrene	2.5E-05	2.030	0.001
Xylene (mixed isomers)	3.7E-05	3.004	0.002
Vinyl Acetate	7.6E-06	0.617	0.000
Total VOC:		745.851	0.373
Trace Metals			
Antimony	1.8E-05	1.461	0.001
Arsenic	4.1E-04	33.288	0.017
Beryllium	2.1E-05	1.705	0.001
Cadmium	5.1E-05	4.141	0.002
Chromium	2.6E-04	21.110	0.011
Chromium (VI)	7.9E-05	6.414	0.003
Cobalt	1.0E-04	8.119	0.004
Lead	0.00042	34.100	0.017
Magnesium	1.1E-02	893.101	0.447
Manganese	4.9E-04	39.784	0.020
Mercury	NA	12.858	0.006
Nickel	2.8E-04	22.733	0.011
Selenium	1.3E-03	105.548	0.053
Acid Mists			
Hydrogen Chloride	1.2E+00	97,429.200	48.715
Hydrogen Fluoride	1.5E-01	12,178.650	6.089

#2 Powerhouse Emissions

Hours of Operation:	Hours	% of Total
Boiler 10:	6,561	40%
Boiler 11:	5,506	33%
Boiler 12:	4,507	27%
Total:	16,574	100%

	Total TPY	Boiler 10 PPH	TPY	Boiler 11 PPH	TPY	Boiler 12 PPH	TPY
PM-Filter	34.53	3.12	13.67	2.62	11.47	2.14	9.39
PM-Condensable	57.00	5.15	22.56	4.32	18.94	3.54	15.50
PM-10 Filterable	23.31	2.11	9.23	1.77	7.74	1.45	6.34
PM-2.5 Filterable	10.36	0.94	4.10	0.79	3.44	0.64	2.82
SO2	1,296.00	117.13	513.04	98.30	430.54	80.46	352.42
Nox	1,174.00	106.11	464.74	89.04	390.01	72.89	319.25
CO	104.68	9.46	41.44	7.94	34.78	6.50	28.47
VOC	7.96	0.72	3.15	0.60	2.64	0.49	2.16
HCL	48.70	4.40	19.28	3.69	16.18	3.02	13.24
HF	6.09	0.55	2.41	0.46	2.02	0.38	1.66
Hg	0.01	0.00	0.00	0.00	0.00	0.00	0.00
CO2	213,791.0	19,322.26	84,631.5	16,215.27	71,022.88	13,273.20	58,137
CH4	3.93	0.36	1.56	0.30	1.31	0.24	1.07
N2O	1.22	0.11	0.48	0.09	0.41	0.08	0.33