

Verso Corporation
Luke Mill
300 Pratt Street
Luke, MD 21540

T 301 359 3311
W versoco.com

ES-17-107

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

August 9, 2017

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

Dear Mr. Durham:

Enclosed is the Verso Luke LLC Title V Permit Renewal Application. The application has been completed using the forms taken from the WV DEP website. Included with this submittal is one hard copy of the application including the area map, plot plan, process flow diagrams, and signature form. Two USB flash drives of the application are also included.

The application includes five operating scenarios for the Lime Kiln unit. The first is for burning natural gas. The second is for the unit burning No 2 fuel oil. The third is for burning No.6 fuel oil. The fourth is for burning No.4 fuel oil. The fifth is for the unit burning Petcoke. Emission values for the No. 2 /No. 6 fuel-oil scenario are based on burning No. 6 fuel oil. No 6 values are included since we feel this oil represents the highest potential to emit values of all the oil types.

The chipper (No. 018) and screen house (No. 023) are both subject to CAM. They both currently have compliance determination methods in the existing Title V permit, which require daily visible emission checks.

We are requesting an application shield for this application. If you have any questions or require further information, please contact Ron Paugh or me at (301) 359-3311, Extension 3262 or 3446, respectively.

Sincerely,

A handwritten signature in black ink that reads 'J. Thomas Martin'.

J. Thomas Martin
Sr. Environmental Engineer

JTM:plt
Enclosures

**WEST VIRGINIA
TITLE V
PERMIT TO OPERATE
RENEWAL APPLICATION**

**VERSO LUKE LLC
LUKE MILL FACILITY
WEST VIRGINIA OPERATIONS**

R30-05700008-2013

AUGUST 2017

Verso Luke LLC

West Virginia Title V Permit Renewal Application

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**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 SECTION 1, Facility Information
<input checked="" type="checkbox"/>	Description of process and products, including NAICS and SIC codes, and including alternative operating scenarios SECTION 1, Process Products
<input checked="" type="checkbox"/>	Area map showing plant location ATTACHMENT A
<input checked="" type="checkbox"/>	Plot plan showing buildings and process areas ATTACHMENT B
<input checked="" type="checkbox"/>	Process flow diagram(s), showing all emission units, control equipment, emission points, and their relationships ATTACHMENT C
<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 SECTION 2, Applicable Requirements
<input checked="" type="checkbox"/>	Listing of all active permits and consent orders (if applicable) SECTION 2, Active Permits & Inactive Permits
<input checked="" type="checkbox"/>	Facility-wide emissions summary SECTION 3, Facility-Wide Emissions
<input checked="" type="checkbox"/>	Identification of Insignificant Activities SECTION 4, 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 SECTION 6, Certification
<input type="checkbox"/>	Confidential Information submitted in accordance with 45CSR31



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

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

www.dep.wv.gov/daq

INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section I: General Information

Form with 10 numbered sections: 1. Name of Applicant (Verso Luke LLC), 2. Facility Name or Location (Verso Luke LLC West Virginia Operations), 3. DAQ Plant ID No. (R 3 0 - 0 5 7 0 0 0 0 8), 4. Federal Employer ID No. (FEIN) (1 1 - 3 6 6 2 6 5), 5. Permit Application Type (Permit Renewal checked), 6. Type of Business Entity (Corporation checked), 7. Is the Applicant the: (Both checked), 8. Number of onsite employees, 9. Governmental Code (Privately owned and operated; 0 checked), 10. Business Confidentiality Claims (No checked).

11. Mailing Address		
Street or P.O. Box: 300 Pratt Street		
City: Luke	State: MD	Zip: 21540-
Telephone Number: (301) 359-3311	Fax Number: (301) 359-2040	

12. Facility Location		
Street: Old Beryl road	City: Beryl	County: Mineral
UTM Easting: 667.00 km	UTM Northing: 4,371.00 km	Zone: <input checked="" type="checkbox"/> 17 or <input type="checkbox"/> 18
Directions: From U.S. Interstate 68, at Frostburg, MD take MD Route 36 south to Westernport, MD. Turn right onto MD Route 135 at Westernport and Travel approximately 1.7 miles. Turn left onto the Potomac River Bridge, this becomes WV route 46. Travel Approximately 150 yards and facility is on left side of State Route 46.		
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). Maryland Pennsylvania	
Is facility located within 100 km of a Class I Area¹? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, name the area(s). Dolly Sods Otter Creek Wilderness Area	
If no, do emissions impact a Class I Area¹? <input type="checkbox"/> Yes <input 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: Todd Downey		Title: Interim Mill Manager
Street or P.O. Box: 300 Pratt Street		
City: Luke	State: MD	Zip: 21540-
Telephone Number: (301) 359-3311	Fax Number: (301) 359-2040	
E-mail address: todd.downey@versoco.com		
Environmental Contact: Ronald E. Paugh		Title: Environmental Manager
Street or P.O. Box: 300 Pratt Street		
City: Luke	State: MD	Zip: 21540-
Telephone Number: (301) 359-3311	Fax Number: (301) 359-2040	
E-mail address: Ronald.paugh@versoco.com		
Application Preparer: J. Thomas Martin		Title: Sr. Environmental Engineer
Company: Verso Luke LLC		
Street or P.O. Box: 300 Pratt Street		
City: Luke	State: MD	Zip: 21540-
Telephone Number: (301) 359-3311	Fax Number: (301) 359-2040	
E-mail address: tom.martin@versoco.com		

14. Facility Description

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

Process	Products	NAICS	SIC
Pulp and Paper Manufacturing	Paper-allied Products	322121	2621
Lime Kiln	Lime and Gypsum Products Manufacturing	327410	3274

Provide a general description of operations.

Supporting Operations for Pulp and Paper Mill.
 Woodyard Operations and Lime Kiln.

- 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 checked="" type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input type="checkbox"/> PSD (45CSR14)
<input checked="" type="checkbox"/> NESHAP (45CSR34)	<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 checked="" 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 checked="" type="checkbox"/> Compliance Assurance Monitoring (40CFR64)
<input type="checkbox"/> CAIR NO _x Annual Trading Program (45CSR39)	<input type="checkbox"/> CAIR NO _x Ozone Season Trading Program (45CSR40)
<input type="checkbox"/> CAIR SO ₂ Trading Program (45CSR41)	

19. Non Applicability Determinations
<p>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.</p> <p>a. 40 CFR 60 Subpart BB – <i>Standards of Performance for Kraft Pulp Mills</i>: The Lime Kiln was installed in 1966. It has not been modified since. Since it was not constructed or modified after September 24, 1976, it is not subject to the requirements of this subpart 60.280 (b).</p> <p>b. 45 CSR 27 – <i>To Prevent and control the Emissions of Toxic Air Pollutants</i>: The total amounts of toxic air pollutants estimated to be emitted from the West Virginia operations are as follows: benzene – 626 lb/yr (threshold 1,000 lb/yr); Chloroform – 888 lb/yr (threshold 1,000 lb/yr); formaldehyde – 608 lb/yr (threshold 1,000 lb/yr); Methylene Chloride – 32 lb/yr (threshold 5,000 lb/yr). Since the estimated emission rates of all toxic air pollutants are below the respective emission thresholds, the regulations in 45 CSR 27 are not applicable.</p>
<input checked="" type="checkbox"/> 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).

Emission Point ID	Applicable Requirement	Permit Condition Number	Pollutant/Parameter	Limit/Standard	Compliance Method	Demonstration Condition Number
Facility-Wide	C.S.R. § 45-6-3.1	3.1.1	Refuse	Open Burning Prohibited	N/A	N/A
Facility-Wide	C.S.R. § 45-6-3.2.a	3.1.2	N/A	Open Burning Prohibited	N/A	N/A
Facility Wide	40 C.F.R. §§ 61.145, 61.148, and 61.150	3.1.3	Asbestos	N/A	N/A	N/A
Facility-Wide	C.S.R. § 45-30-4.3.h.1.B	3.5.9	Any Newly Applicable Requirement	Notify and Submit Compliance Schedule	N/A	N/A
Facility-Wide	WV Code § 22-5-(a)(15)	3.3.1	Testing	Conduct as required	N/A	3.3.1
Facility-Wide	C.S.R. § 45-7-5.1.	4.1.8	PM	Minimize Fugitive Emissions	Recordkeeping	4.2.2
Facility-Wide	C.S.R. § 45-7-5.2	4.1.9	PM	Dust Control	Recordkeeping	4.2.1
Facility-Wide	C.S.R. § 45-4-3.1	3.1.4	Any Air Pollutant	Objectionable Odor Prohibited	Recordkeeping	3.4.3
Facility-Wide	C.S.R. § 45-11-5.2	3.1.5	Any Regulated Air Pollutant	Submit Standby Plan if Requested	N/A	N/A
Facility-Wide	C.S.R. § 45-7-3.1	4.2.2	PM, Smoke	20% Opacity	Visual Inspection and Recordkeeping	4.2.2.a,b.
Facility-Wide	C.S.R. § 40 Part 82 subpart F	3.1.7	Ozone-depleting Substances	Comply with standards	Recordkeeping	3.1.7a.,b.,c
Facility-Wide	WV Code § 22-5-4(a)(14)	3.1.6	Criteria Air Pollutants	Submit Annual Emission Inventory	Reporting	3.1.6

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.)

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>
R13-511A	09/03/2008	
R30-05700008-2007	08/27/2007	
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Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year] (Gas Fired)	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	47.12
Nitrogen Oxides (NO _x)	120.59
Lead (Pb)	0.02
Particulate Matter (PM _{2.5}) ¹	718.75
Particulate Matter (PM ₁₀) ¹	718.75
Total Particulate Matter (TSP)	949.29
Sulfur Dioxide (SO ₂)	0.484
Volatile Organic Compounds (VOC)	38.76
Hazardous Air Pollutants ²	Potential Emissions
Acetaldehyde	4.669
Acrolein	0.08
Arsenic	0.0002
Benzene	0.075
Carbon Disulfide	0.028
Chloroform	0.0186
Chloromethane	0.12
Chromium	0.054
Cumene	0.00004
Formaldehyde	0.56
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 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year] (Gas Fired)	
Hazardous Air Pollutants ²	Potential Emissions
Hexane	0.02
Mercury Compounds	0.026
Methanol	36.2
Methylene Chloride	0.4
Methyl Isobutyl Ketone	0.058
Naphthalene	0.033
Nickle Compounds	0.006
Phenol	0.787
Polycyclic Aromatics	0.003
Propionaldehyde	0.414
Styrene	0.023
Tetrachloroethylene	0.107
Toluene	0.129
1,2,4 - Trichlorobenzene	0.059
1,1,1 - Trichloroethane	0.182
Trichloroethylene	0.012
Xylene	0.064
Zinc Compounds	0.0074
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 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year] (#2/#6 Oil Fired)	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	38.55
Nitrogen Oxides (NO _x)	84.47
Lead (Pb)	0.02
Particulate Matter (PM _{2.5}) ¹	718.75
Particulate Matter (PM ₁₀) ¹	718.75
Total Particulate Matter (TSP)	949.29
Sulfur Dioxide (SO ₂)	0.256
Volatile Organic Compounds (VOC)	38.76
Hazardous Air Pollutants ²	Potential Emissions
Acetaldehyde	4.669
Acrolein	0.08
Arsenic	0.0002
Benzene	0.075
Carbon Disulfide	0.028
Chloroform	0.0186
Chloromethane	0.12
Chromium	0.054
Cumene	0.00004
Formaldehyde	0.56
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 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year] <u>(#2/#6 Oil Fired)</u>	
Hazardous Air Pollutants ²	Potential Emissions
Hexane	0.02
Mercury Compounds	0.026
Methanol	36.2
Methylene Chloride	0.4
Methyl Isobutyl Ketone	0.058
Naphthalene	0.033
Nickle Compounds	0.006
Phenol	0.787
Polycyclic Aromatics	0.003
Propionaldehyde	0.414
Styrene	0.023
Tetrachloroethylene	0.107
Toluene	0.129
1,2,4 - Trichlorobenzene	0.059
1,1,1 - Trichloroethane	0.182
Trichloroethylene	0.012
Xylene	0.064
Zinc Compounds	0.0074
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 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year] (#4 Recycle Oil Fired)	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	35.88
Nitrogen Oxides (NO _x)	84.46
Lead (Pb)	0.02
Particulate Matter (PM _{2.5}) ¹	718.75
Particulate Matter (PM ₁₀) ¹	718.75
Total Particulate Matter (TSP)	949.29
Sulfur Dioxide (SO ₂)	0.484
Volatile Organic Compounds (VOC)	20.88
Hazardous Air Pollutants ²	Potential Emissions
Acetaldehyde	2.51
Acrolein	0.11
Arsenic	0.0002
Benzene	0.31
Carbon Disulfide	0.0378
Chloroform	0.079
Chloromethane	0.12
Chromium	0.054
Cumene	0.0187
Formaldehyde	0.3953
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 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year] (#4 Recycle Oil Fired)	
Hazardous Air Pollutants ²	Potential Emissions
Hexane	0.02
Mercury Compounds	0.0261
Methanol	36.2
Methylene Chloride	0.4671
Methyl Isobutyl Ketone	0.0474
Naphthalene	0.0568
Nickle Compounds	0.006
Phenol	1.46
Polycyclic Aromatics	0.003
Propionaldehyde	0.891
Styrene	0.032
Tetrachloroethylene	0.132
Toluene	0.099
1,2,4 - Trichlorobenzene	0.11
1,1,1 - Trichloroethane	0.23
Trichloroethylene	0.052
Xylene	0.072
Zinc Compounds	0.0074
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 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year] (Petcoke Fired)	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	52.78
Nitrogen Oxides (NO _x)	156.49
Lead (Pb)	0.0093
Particulate Matter (PM _{2.5}) ¹	718.75
Particulate Matter (PM ₁₀) ¹	718.75
Total Particulate Matter (TSP)	949.29
Sulfur Dioxide (SO ₂)	7.067
Volatile Organic Compounds (VOC)	3.26
Hazardous Air Pollutants ²	Potential Emissions
Acetaldehyde	4.162
Acrolein	0.039
Arsenic	0.0001
Benzene	0.0033
Carbon Disulfide	0.0261
Chloroform	0.563
Chloromethane	0.12
Chromium	0.028
Cumene	1.2E-05
Formaldehyde	0.335
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 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year] (Petcoke Fired)	
Hazardous Air Pollutants ²	Potential Emissions
Hexane	0.16
Mercury Compounds	0.002
Methanol	34.83
Methylene Chloride	0.39
Methyl Isobutyl Ketone	0.054
Naphthalene	0.0326
Nickle Compounds	5.69
Phenol	0.166
Polycyclic Aromatics	0.003
Propionaldehyde	0.8912
Styrene	0.0227
Tetrachloroethylene	0.0458
Toluene	0.094
1,2,4 - Trichlorobenzene	0.0592
Trichloroethylene	0.052
Xylene	0.0278
Zinc Compounds	2.1E-05
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 vent 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 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 checked="" type="checkbox"/>	11. Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
<input checked="" type="checkbox"/>	12. Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
<input checked="" 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 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> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>

24. Insignificant Activities (Check all that apply)	
<input type="checkbox"/>	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. 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: _____ _____ _____ _____ _____
<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 checked="" 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 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 checked="" 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 checked="" type="checkbox"/>	37. Laundry activities, except for dry-cleaning and steam boilers.
<input checked="" type="checkbox"/>	38. Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
<input type="checkbox"/>	39. Oxygen scavenging (de-aeration) of water.
<input type="checkbox"/>	40. Ozone generators.

24. Insignificant Activities (Check all that apply)	
<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 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 checked="" type="checkbox"/>	50. Space heaters operating by direct heat transfer.
<input checked="" 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 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

28. Certification of Truth, Accuracy and Completeness and Certification of Compliance

*Note: This Certification must be signed by a responsible official. The **original**, signed in **blue ink**, must be submitted with the application. Applications without an **original** signed certification will be considered as incomplete.*

a. Certification of Truth, Accuracy and Completeness

I 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.

b. Compliance Certification

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.

Responsible official (type or print)

Name: Todd Downey

Title: Interim Mill Manager

Responsible official's signature:

Signature: Todd Downey Signature Date: 8/10/17
(Must be signed and dated in blue ink)

Note: Please check all applicable attachments included with this permit application:

<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 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.dep.wv.gov/dag, requested by phone (304) 926-0475, and/or obtained through the mail.

WEST VIRGINIA
STATE TAX DEPARTMENT

**BUSINESS REGISTRATION
CERTIFICATE**

ISSUED TO:
**VERSO LUKE LLC
1 JONES ST
PIEDMONT, WV 26750-1009**

BUSINESS REGISTRATION ACCOUNT NUMBER: 2337-2006

This certificate is issued on: 03/10/2017

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

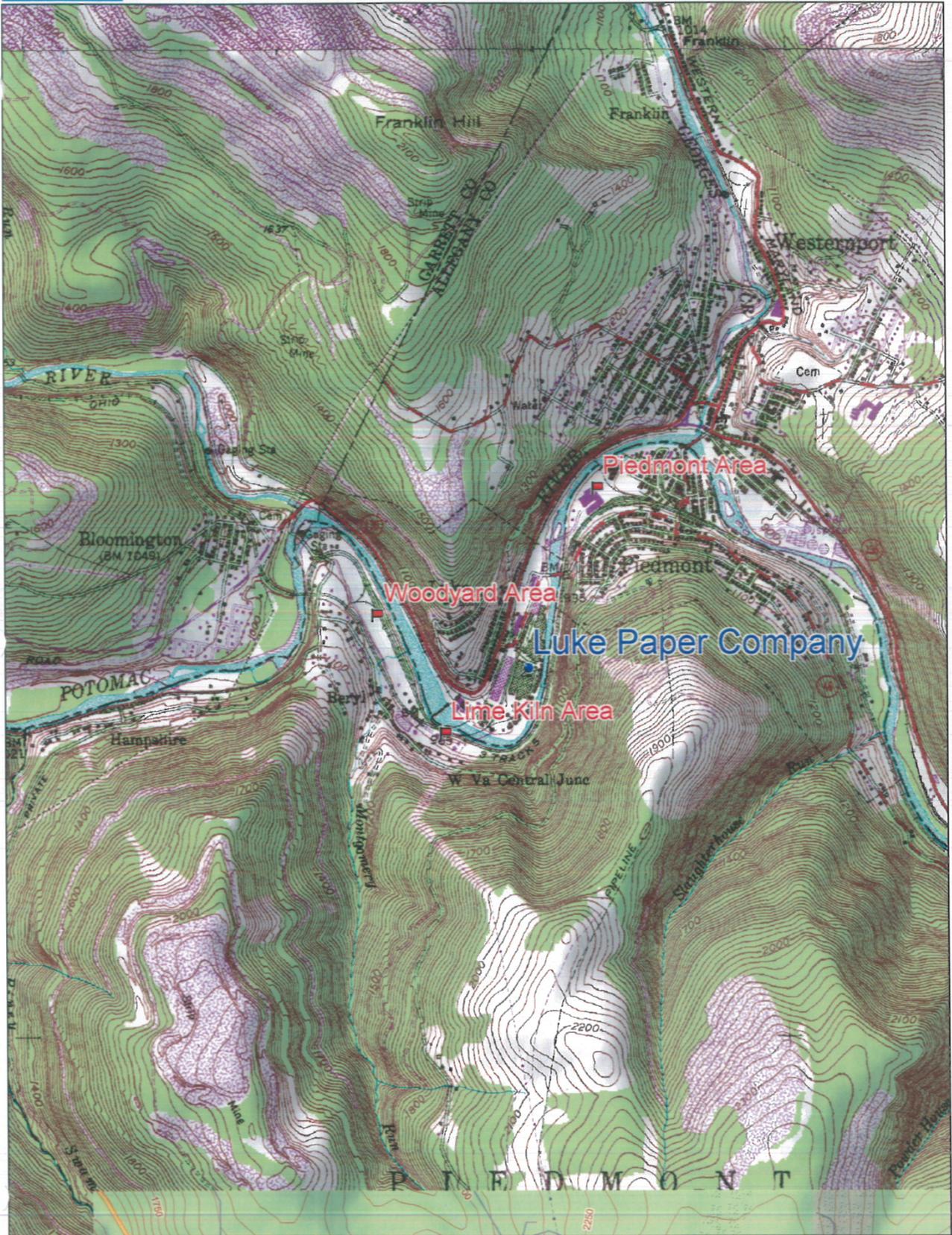
*The person or organization identified on this certificate is registered
to conduct business in the State of West Virginia at the location above.*

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.

atL006 v.4
L1934210240



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 www.delorme.com

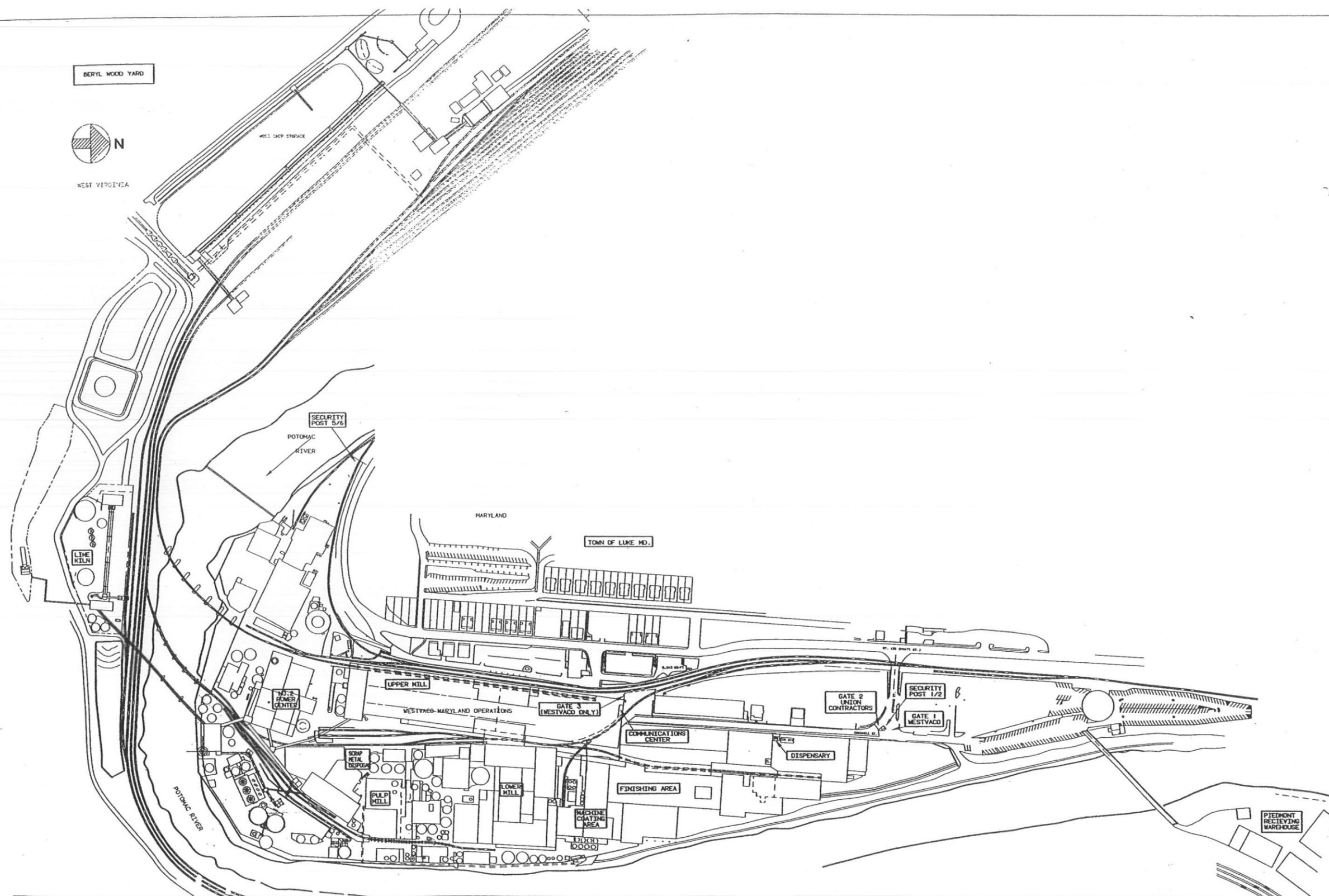
TN
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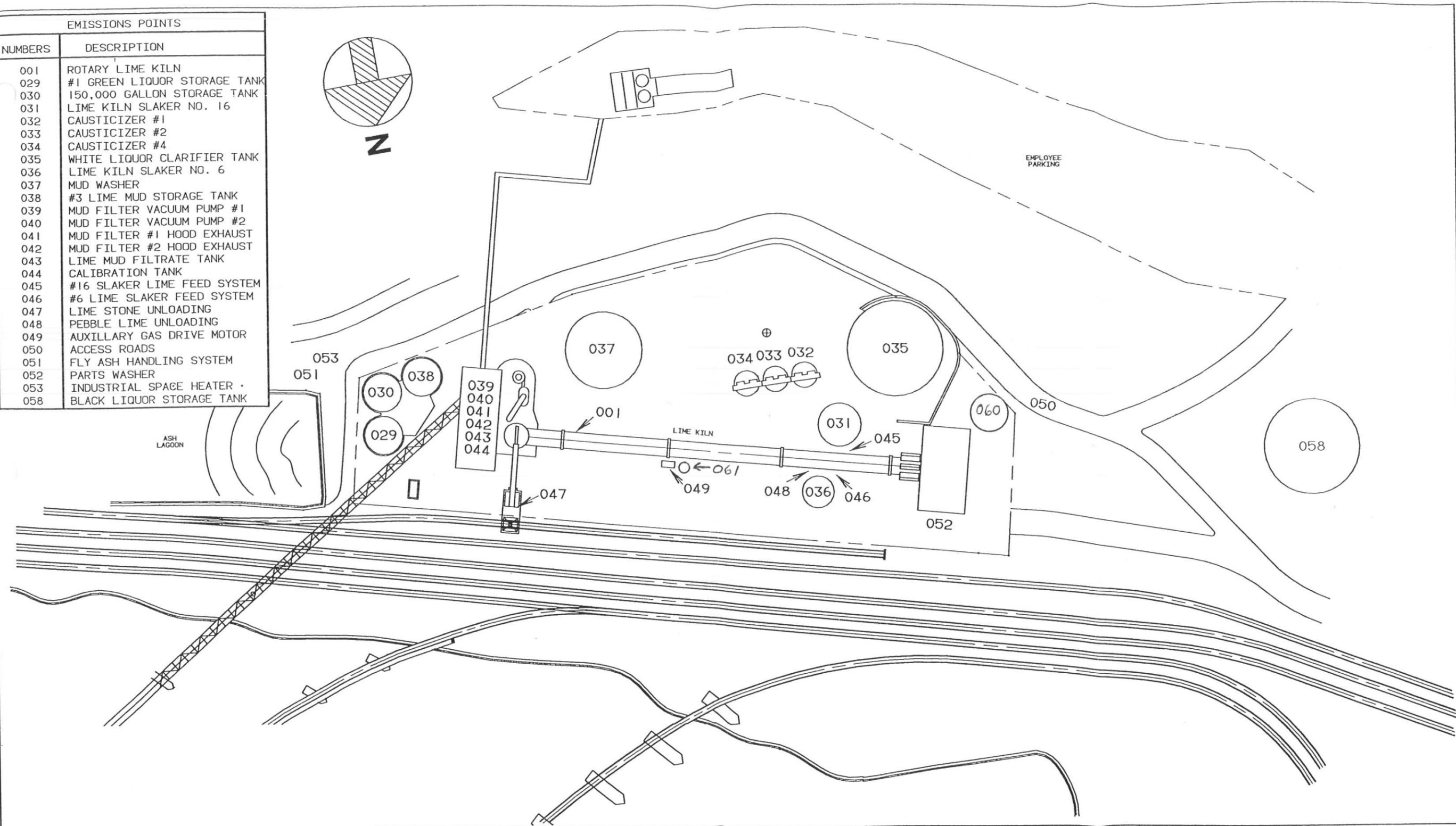
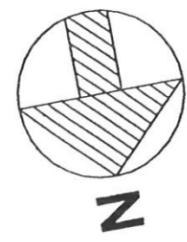
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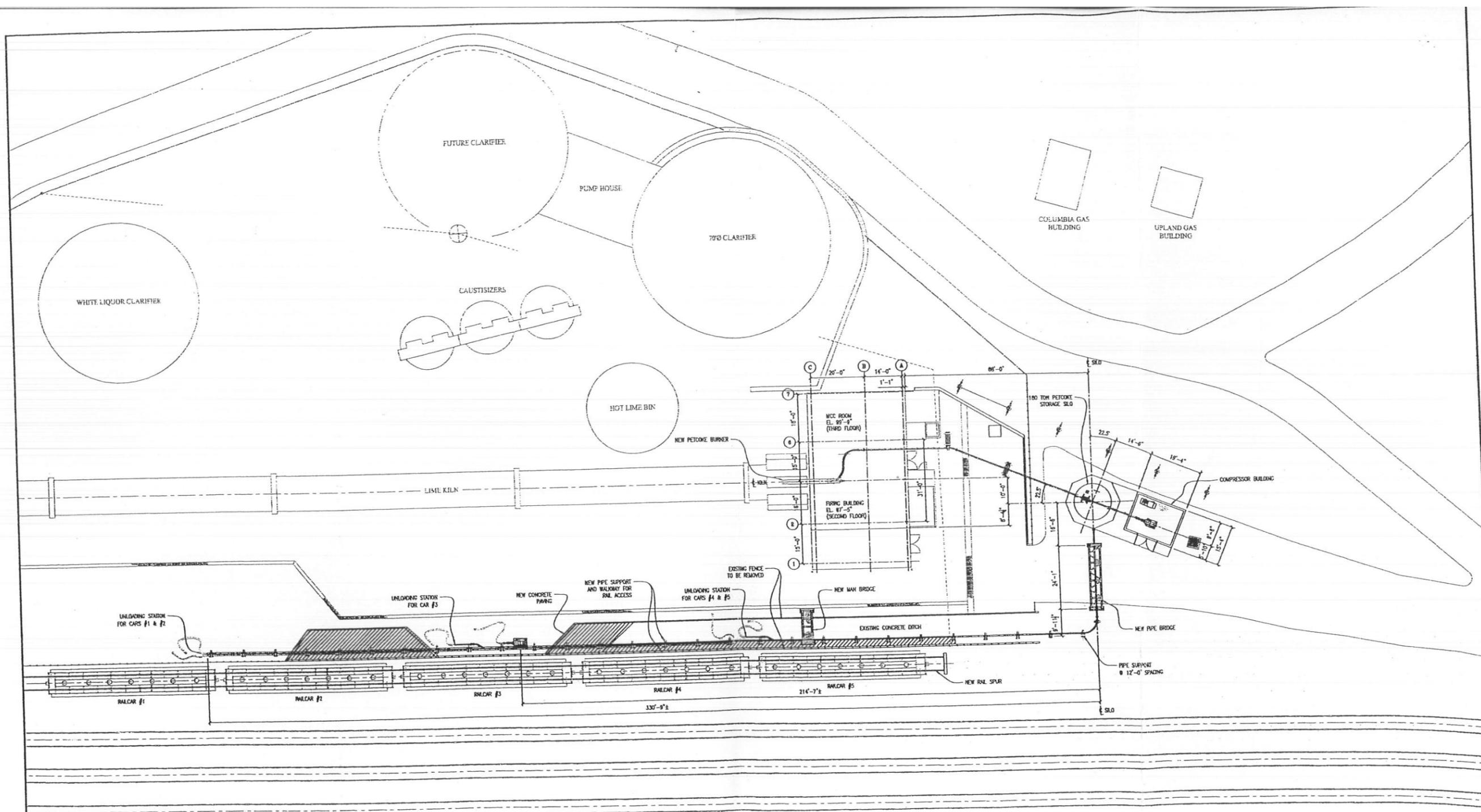


LUKE PAPER COMPANY			
Luke, Maryland			
LUKE MILL PROPER PLOT PLAN			
DESIGNER	MEC	ENGR.	SCALE 1"=100'
CHECKED BY	APPROVED BY		
DWG FILE NO.	79-90 MAP	90	
DWG. NO.	PGN LD-96-025		

EMISSIONS POINTS	
NUMBERS	DESCRIPTION
001	ROTARY LIME KILN
029	#1 GREEN LIQUOR STORAGE TANK
030	150,000 GALLON STORAGE TANK
031	LIME KILN SLAKER NO. 16
032	CAUSTICIZER #1
033	CAUSTICIZER #2
034	CAUSTICIZER #4
035	WHITE LIQUOR CLARIFIER TANK
036	LIME KILN SLAKER NO. 6
037	MUD WASHER
038	#3 LIME MUD STORAGE TANK
039	MUD FILTER VACUUM PUMP #1
040	MUD FILTER VACUUM PUMP #2
041	MUD FILTER #1 HOOD EXHAUST
042	MUD FILTER #2 HOOD EXHAUST
043	LIME MUD FILTRATE TANK
044	CALIBRATION TANK
045	#16 SLAKER LIME FEED SYSTEM
046	#6 LIME SLAKER FEED SYSTEM
047	LIME STONE UNLOADING
048	PEBBLE LIME UNLOADING
049	AUXILLARY GAS DRIVE MOTOR
050	ACCESS ROADS
051	FLY ASH HANDLING SYSTEM
052	PARTS WASHER
053	INDUSTRIAL SPACE HEATER
058	BLACK LIQUOR STORAGE TANK



				LIME KILN AREA EMISSIONS POINTS LOCATIONS GENERAL ARRANGEMENT		LUKE PAPER COMPANY LUKE MARYLAND	
A	5/3/96	JCL	INFORMATION	SCALE: 1" = 100'	CHARGE	DWG. NO. PGN0000P34862 1/4	REV A
REV.	DATE	BY	ISSUED FOR				



PETCOKE DELIVERY SYSTEM - OVERALL SITE PLAN



PRELIMINARY
ISSUED FOR PHASE II STUDY
DESTROY PLANS EARLIER PLOT DATE
PLOT DATE: 10/16/2007

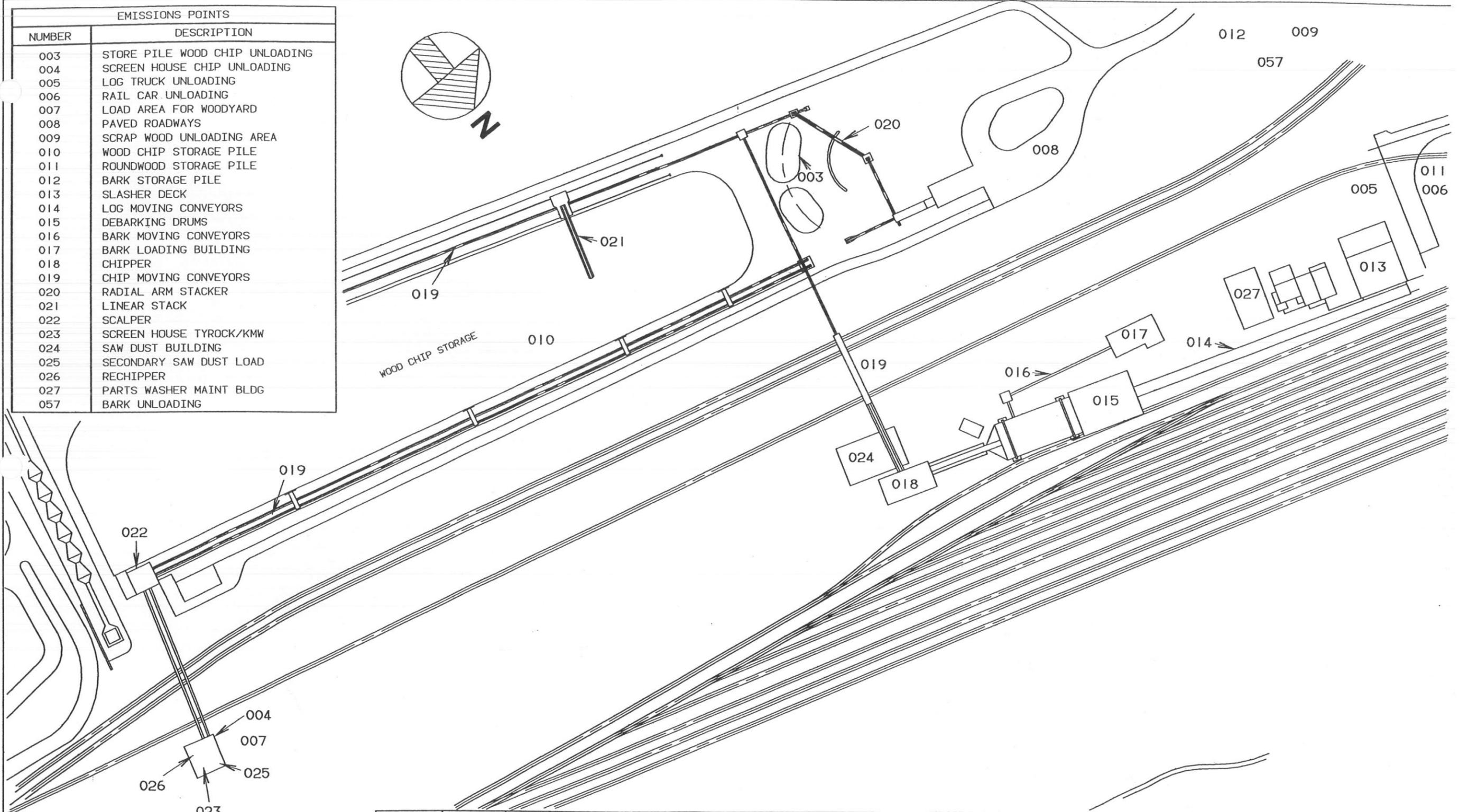
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THIS DRAWING AND THE INFORMATION ON IT IS THE EXCLUSIVE INTELLECTUAL PROPERTY OF MATRIX ENGINEERING, PLLC. PARAGRAPHS 11-15 OF THIS FUEL FEED PROCESS AND MANY OF ITS UNIQUE FEATURES ARE ON RECORD AND PENDING WITH THE U.S. PATENT OFFICE. INFORMATION ON THIS DRAWING IS CONFIDENTIAL AND DEVELOPED EXCLUSIVELY FOR THE CLIENT SHOWN IN THE TITLEBLOCK. DO NOT DISTRIBUTE TO A THIRD PARTY WITHOUT MATRIX ENGINEERING'S WRITTEN CONSENT.

REVISED
DATE: 10/16/2007
BY: K. BURRO
FOR: NEWPAGE CORP. - LUKE, MD

MATRIX ENGINEERING, PLLC
112 Miller Station Blvd. • Poughkeepsie, NY 12501
Phone (212) 442-5800 • FAX (212) 442-0041
NewPage Corp. - Luke, MD

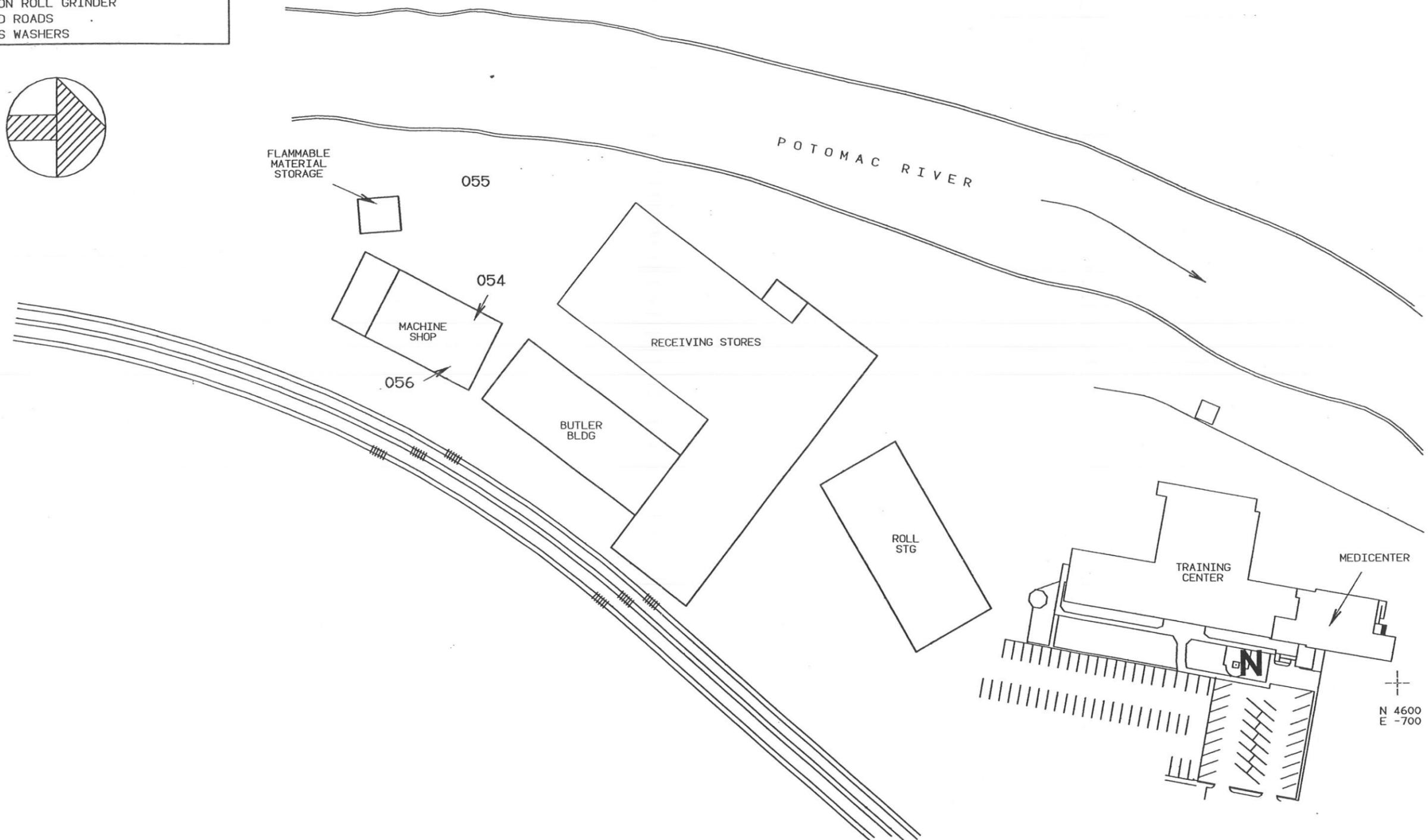
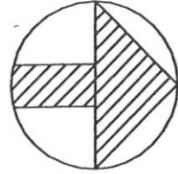
PETROLEUM COKE STORAGE AND DELIVERY SYSTEM			
PETCOKE DELIVERY SYSTEM			
OVERALL SITE PLAN			
SCALE	SHEET NO.	TOTAL SHEETS	PROJECT NO.
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DATE	PROJECT NO.	DATE	SCALE
10/16/2007	03090571	10/5/07	1/16"=1'-0"
PROJECT NO.		PROJECT NO.	
03090571		030571-SK-03	
SHEET NO.		SHEET NO.	
192		23x34	
DATE		DATE	
10/16/2007		10/5/07	

EMISSIONS POINTS	
NUMBER	DESCRIPTION
003	STORE PILE WOOD CHIP UNLOADING
004	SCREEN HOUSE CHIP UNLOADING
005	LOG TRUCK UNLOADING
006	RAIL CAR UNLOADING
007	LOAD AREA FOR WOODYARD
008	PAVED ROADWAYS
009	SCRAP WOOD UNLOADING AREA
010	WOOD CHIP STORAGE PILE
011	ROUNDWOOD STORAGE PILE
012	BARK STORAGE PILE
013	SLASHER DECK
014	LOG MOVING CONVEYORS
015	DEBARKING DRUMS
016	BARK MOVING CONVEYORS
017	BARK LOADING BUILDING
018	CHIPPER
019	CHIP MOVING CONVEYORS
020	RADIAL ARM STACKER
021	LINEAR STACK
022	SCALPER
023	SCREEN HOUSE TYROCK/KMW
024	SAW DUST BUILDING
025	SECONDARY SAW DUST LOAD
026	RECHIPPER
027	PARTS WASHER MAINT BLDG
057	BARK UNLOADING



				BERYL WOODYARD AREA EMISSIONS POINTS LOCATIONS GENERAL ARRANGEMENT		LUKE PAPER COMPANY	
						LUKE MARYLAND	
A	5/3/96	JCL	INFORMATION			DWG. NO.	REV
REV.	DATE	BY	ISSUED FOR	SCALE: 1" = 100'	CHARGE	PGN0000P34863 1/4	A

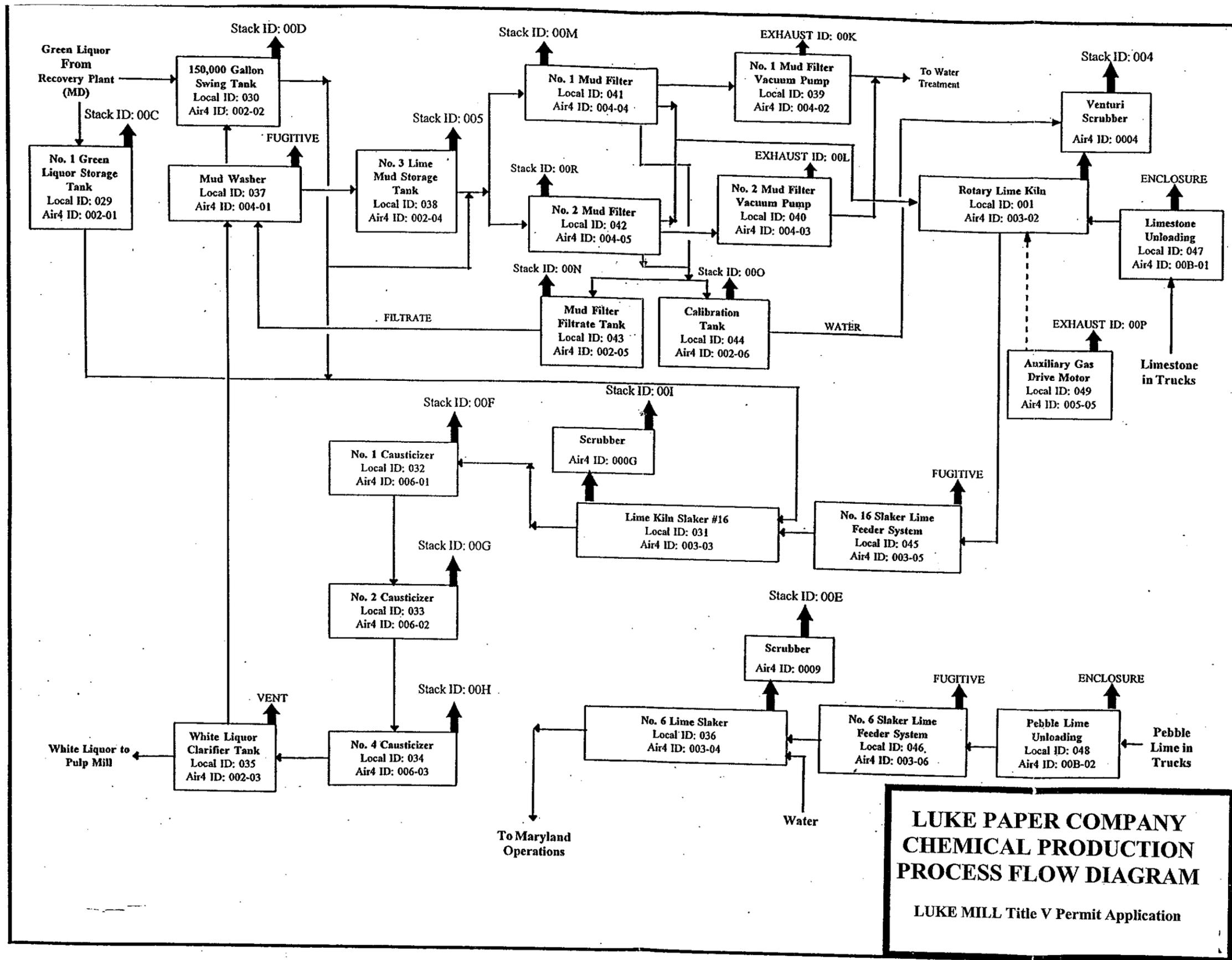
EMISSIONS POINTS	
NUMBER	DESCRIPTION
054	COTTON ROLL GRINDER
055	PAVED ROADS
056	PARTS WASHERS



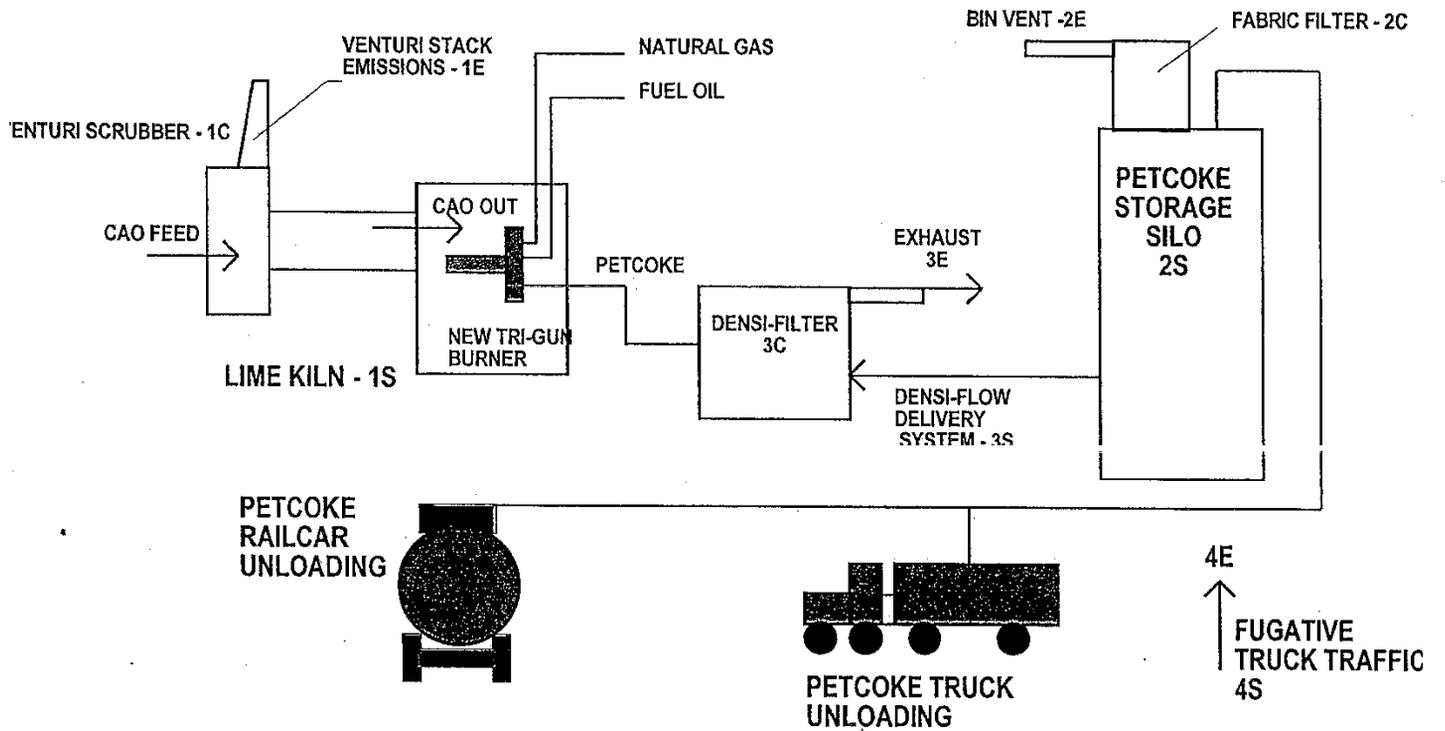
REV.	DATE	BY	ISSUED FOR
A	5/3/96	JCL	INFORMATION

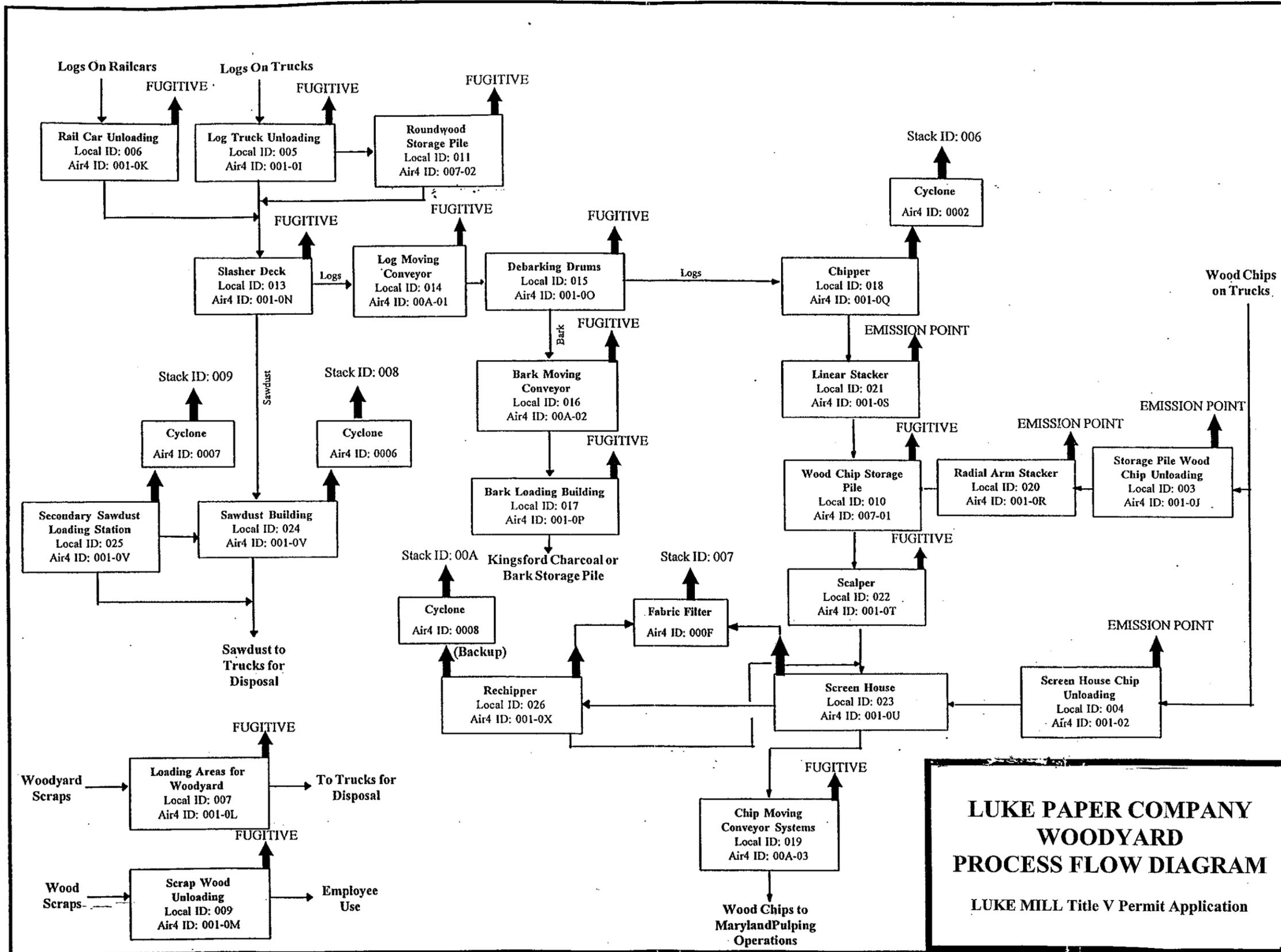
PIEDMONT AREA
 EMISSIONS POINTS LOCATIONS
 GENERAL ARRANGEMENT
 SCALE: 1" = 100' CHARGE

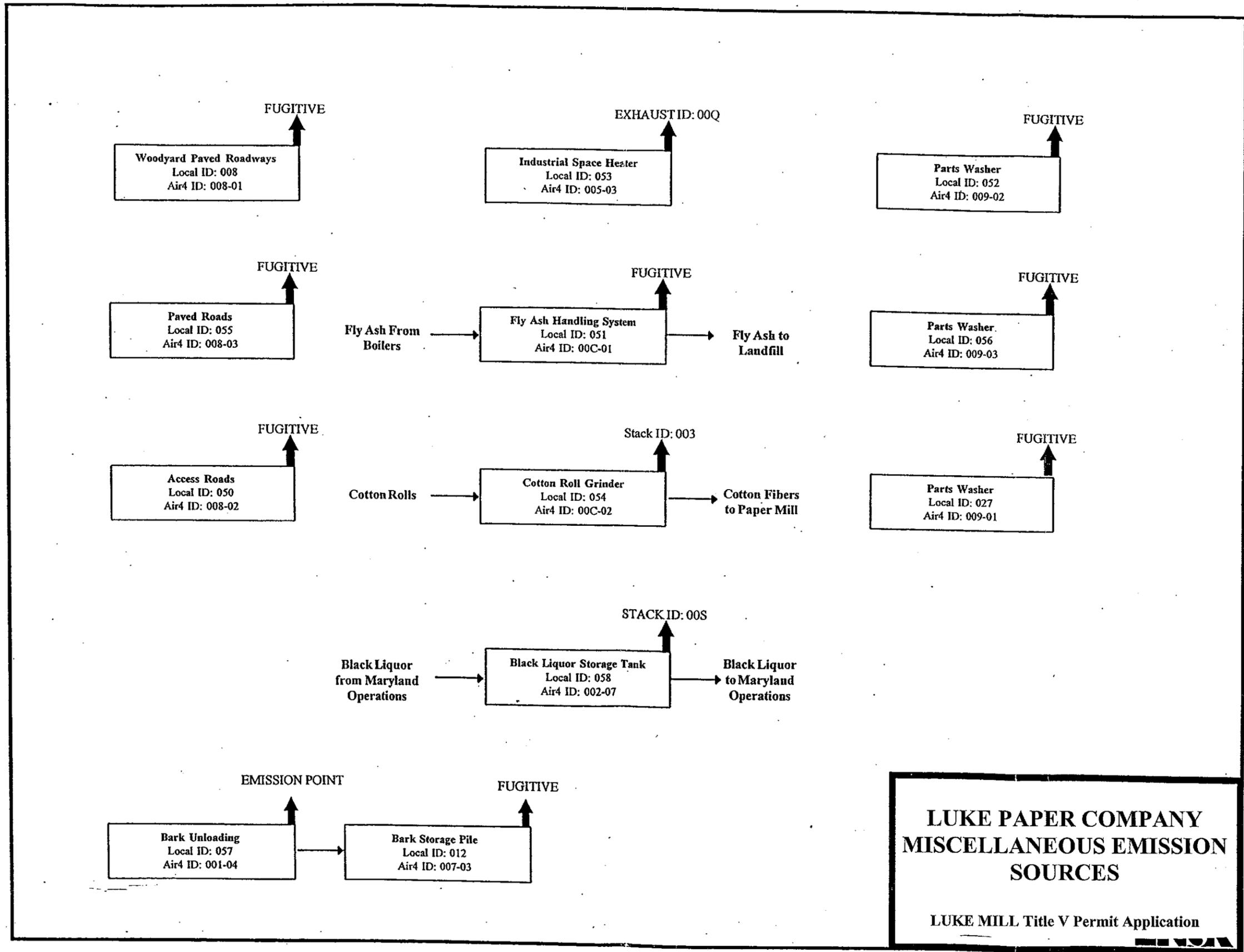
LUKE PAPER COMPANY
 LUKE MARYLAND
 DWG. NO. PGN0000P34864 1/4
 REV A



PROCESS FLOW DIAGRAM - PETCOKE SYSTEM







**LUKE PAPER COMPANY
MISCELLANEOUS EMISSION
SOURCES**

LUKE MILL Title V Permit Application

ATTACHMENT D - Title V Equipment Table
(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Point ID ¹	Control Device ¹	Emission Unit ID ¹	Emission Unit Description	Design Capacity	Year Installed/Modified
001		1	Rotary Lime Kiln – Production of Lime	103,083 lbs/hr	1966
	001		Kiln Venturi Scrubber – control particulate emissions from operation of lime kiln	60,000 ft ³ /min	1966
	001		Kiln SO ₂ - Inherent control of SO ₂ by lime absorption	60,000 ft ³ /min	1966
003		003	Storage Pile Chip Unloading – Wood chip truck unloading operation	132 tph	1985
004		004	Screen House Chip Unloading - operation	150 tph	1960
005		005	Log Truck Unloading Operation	300 tph	1960
006		006	Rail Car unloading operation	300 tph	1960
007		007	Loading Areas – Sawdust waste clean up and loaded at various areas	16 tph	1960
008		008	Woodyard Roads – Roadways used for raw material transfers and access	5.65 veh-mi	1985
009		009	Scrap Wood Unloading – scrap wood is unloaded in pile for employees	16 tph	1960
010		010	Wood Chip Storage – Storage pile for wood chips	550 tph	1985
011		011	Roundwood storage – Log storage	500 tph	1960
012		012	Bark Storage	84 tph	1960
013		013	Slasher Deck – Saws logs to 4 ft.	460 tph	1985
014		014	Log Moving Conveyors – move logs through process	600 tph	1985
015		015	Debarking Drums – Log debarking operation	600 tph	1985
016		016	Bark Moving Conveyors – Transporting bark through process	84 tph	1985
017		017	Bark Loading Building – Bark and sawdust loaded into trucks	84 tph	1985
018		018	Chipper – Wood chipping operation	370 tph	1985
	018		Chipper Cyclone – Control particulate emissions from wood chipping operation	75,000 ft ³ /min	1985
019		019	Chip Moving Conveyors – Moving chips through process	550 tph	1985
020		020	Radial Arm Stacker – Transfers wood chips to storage pile	150 tph	1985

¹For 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 D - Title V Equipment Table
(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Point ID ¹	Control Device ¹	Emission Unit ID ¹	Emission Unit Description	Design Capacity	Year Installed/Modified
021		021	Linear Stacker – Transfers wood chips to storage pile	550 tph	1985
022		022	Scalper – Separates chips from reject knots and shives	600 tph	1985
023		023	Screen House – wood chip screening operation	300 tph	1985
	023		Screening Fabric Filter – Control particulate emissions from screening and rechipping of wood chips	80,000 ft ³ /min	1966
024		024	Sawdust building – Building for transfer chute for sawdust collection	10 tph	1960
	024		Sawdust building cyclone- Control particulate emissions from collection of sawdust	8,436 ft ³ /min	1985
025		025	Sawdust Loading – secondary sawdust loading station	10 tph	1960
	025		Sawdust Loading Cyclone – Control particulate emissions from loading sawdust into trucks	N/A	1985
026		026	Rechipper- Rechipping oversized chips	12 tph	1960
	026		Rechipper cyclone – control particulate emissions from rechipping operations	8,000 ft ³ /min	1966
031		031	Lime Slacker #16 – Slaking of lime w/t green liquor	16.17 tph	1966
	031		No. 16 Slaker Scrubber – control particulate emissions from slaking of lime with green liquor	7,100 ft ³ /min	1966
036		036	#6 Lime Slaker – slaking of lime w/t water	16.17 tph	1966
	036		No. 6 Slaker Scrubber – Control particulate emissions from slaking of lime with water	7,400 ft ³ /min	1966
045		045	#16 Slaker Feeder – Feeder system for lime slaker	20 tph	1966
	045		No. 16 Slaker Feeder Enclosure – Control particulate emissions from discharge of lime kiln to slaker	N/A	1966
046		046	#6 Slaker Feeder – Feed system for lime slaker	3 tph	1966
	046		No. 6 Slaker Feeder Enclosure – Control particulate emissions from discharge of lime to slaker	N/A	1966
047		047	Limestone Unloading	50 tph	1966
	047		Limestone Unloading Enclosure – Control particulate emissions during unloading of limestone trucks	N/A	1966
048		048	Pebble Lime Unloading	20 tph	1966
	048		Pebble Lime Unloading Enclosure – Control particulate matter emissions during unloading of pebble lime trucks	N/A	1966

¹For 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 D - Title V Equipment Table
(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Point ID ¹	Control Device ¹	Emission Unit ID ¹	Emission Unit Description	Design Capacity	Year Installed/Modified
050		050	Access Roads – Roads used to haul waste. Fly ash, etc.	4.25 veh-mi	1966
051		051	Fly Ash Handling – Boiler fly ash handling system	60 tph	1966
055		055	Paved Roads – Paved access roads to receiving	2.4 veh-mi	1966
057		057	Bark Unloading – Unloading of bark onto storage pile	84 tph	1966
029		029	No. 1 Green Liquor Tank	150,000 Gals.	1966
030		030	150,000 Gal. Tank	150,000 Gals.	1966
032		032	No. 1 Causticizer	35,000 Gals.	1966
033		033	No. 2 Causticizer	35,000 Gals.	1966
034		034	No. 3 Causticizer	35,000 Gals.	1966
035		035	White Liquor Clarifier	1,065,000 Gals	1966
037		037	Mud Washer	350,000 Gals.	1966
038		038	No. 3 Mud filter	150,000 Gals.	1966
039		039	No. 1 Vacuum Pump	16.17 Tons/hr	1966
040		040	No. 2 Vacuum Pump	16.17 Tons/hr	1966
041		041	No. 1 Mud Filter Tank	250 Gals.	1966
042		042	No. 2 Mud Filter Tank	250 Gals.	1966
043		043	Mud Filter Filtrate Tank	3,770 Gals.	1966
044		044	Calibration Tank	1,500 Gals.	1966
049		049	Auxiliary Gas Drive Motor	0.16 mm Btu/hr	1966
054		054	Cotton Roll Grinding	3 rolls/day	1989
058		058	Liquor Storage Tank	700,000 Gals.	1965
060		060	No. 2 fuel Oil Tank	1,500 Gals.	1966
061		061	Auxiliary Gas Drive Fuel Tank	150 Gals.	1966

¹For 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: 001	Emission unit name: Rotary Lime Kiln	List any control devices associated with this emission unit. Kiln Venturi Scrubber Kiln SO ₂
--	--	--

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Produces lime for recovery of pulping chemicals

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

Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
---	---	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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: 120 mm BTU/hr	Type and Btu/hr rating of burners: Natural Gas/Oil 120 mm BTU/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.

Gas – Normal Operation, 120,000 ft³/hr - 1,051,200,000 ft³
Fuel Oil – alternate Fuel - 812.5 gallons/hr - 7,117,500 gallons (No. 2, 4, or 6 Oil)

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

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Gas			1,030
Fuel Oil	2.0%		146,000/gallon
Petcoke	10.0%		120M Btu/hr

<i>Emissions Data</i> <u>(Gas Fired)</u>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	2.93	12.82
Nitrogen Oxides (NO _x)	27.33	119.69
Lead (Pb)	4.566E-03	0.02
Particulate Matter (PM _{2.5})	31.58	138.32
Particulate Matter (PM ₁₀)	31.58	138.32
Total Particulate Matter (TSP)	31.58	138.32
Sulfur Dioxide (SO ₂)	0.1	0.434
Volitile Organic Compounds (VOC)	4.18	18.31
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.1038	0.4547
Acrolein	8.9E-03	0.039
Arsenic	4.52-05	1.98-04
Benzene	1.4902	0.0652
Carbon Disulfide	4.566E-02	0.02
Carbon Tetrachloride	1.86	8.14
Chlorobenzene	7.53E-03	0.033
Chloroform	1.621E-03	7.1E-03
Chloromethane	0.0274	0.12
Chromium	2.283E-03	0.01
Cumene	2.7E-08	01.2E-07
Formaldehyde	7.99E-02	0.35
Hexane	1.5E-03	6.59E-03
Hydrochloric Acid	3.07E-02	0.135
Mercury Compounds	5.96E-03	0.0261
Methanol	3.69E-01	1.62
Methylene Chloride	2.055E-03	9.0E-03
Methyl Isobutyl Ketone	4.11E-03	0.018
Naphthalene	7.47E-03	0.0327
Nickel Compounds	1.393E-02	0.061

<i>Emissions Data</i> <u>(Gas Fired)</u>		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Barium	7.1E-03	0.031
Benz0(g,h,i)perylene	2.5E-04	1.1E-03
Copper	1.073E-03	4.7E-03
Manganese Compounds	6.32E-03	0.0277
Sulfuric Acid	1.1E-05	4.82E-05
Vanadium compounds	3.196E-05	1.4E-04
<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>NCASI Bulletins 884 (Aug./2004) 175 646 (Feb 1993) NCASI SARA 313 Emission Factor Summary AP42 Tables 11.17-4 13.2.2 13.2.4 10.3-1</p>		

Emissions Data <u>(#2 / #6 Fuel Oil)</u>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	2.93	12.82
Nitrogen Oxides (NO _x)	27.33	119.69
Lead (Pb)	4.566E-03	0.02
Particulate Matter (PM _{2.5})	31.58	138.32
Particulate Matter (PM ₁₀)	31.58	138.32
Total Particulate Matter (TSP)	31.58	138.32
Sulfur Dioxide (SO ₂)	0.05	0.21
Volitile Organic Compounds (VOC)	4.18	18.31
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.1038	0.4547
Acrolein	8.9E-03	0.039
Arsenic	4.52E-05	1.98E-04
Benzene	1.4902	0.0652
Carbon Disulfide	4.566E-02	0.02
Carbon Tetrachloride	1.86	8.14
Chlorobenzene	7.53E-03	0.033
Chloroform	1.621E-03	7.1E-03
Chloromethane	0.0274	0.12
Chromium	2.283E-03	0.01
Cumene	2.7E-08	01.2E-07
Formaldehyde	7.99E-02	0.35
Hexane	1.5E-03	6.59E-03
Hydrochloric Acid	3.07E-02	0.135
Mercury Compounds	5.96E-03	0.0261
Methanol	3.69E-01	1.62
Methylene Chloride	2.055E-03	9.0E-03
Methyl Isobutyl Ketone	4.11E-03	0.018
Naphthalene	7.47E-03	0.0327
Nickel Compounds	1.393E-02	0.061

<i>Emissions Data</i> <u><i>(#2/ #6 Fuel Oil)</i></u>		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Barium	7.1E-03	0.031
Benz0(g,h,i)perylene	2.5E-04	1.1E-03
Copper	1.073E-03	4.7E-03
Manganese Compounds	6.32E-03	0.0277
Selenium	1.86E-04	8.147E-04
Sulfuric acid	0.339	1.487
Vanadium compounds	3.196E-05	1.4E-04
<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>NCASI Bulletins 884 (Aug./2004) 175 646 (Feb 1993) NCASI SARA 313 Emission Factor Summary AP42 Tables 11.17-4 13.2.2 13.2.4 10.3-1</p>		

<i>Emissions Data</i> (#4 Fuel Oil)		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	2.93	12.82
Nitrogen Oxides (NO _x)	27.33	119.69
Lead (Pb)	4.566E-03	0.02
Particulate Matter (PM _{2.5})	31.58	138.32
Particulate Matter (PM ₁₀)	31.58	138.32
Total Particulate Matter (TSP)	31.58	138.32
Sulfur Dioxide (SO ₂)	0.1	0.438
Volitile Organic Compounds (VOC)	0.098	0.43
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.1038	0.4547
Acrolein	8.9E-03	0.039
Arsenic	4.52-05	1.98-04
Benzene	1.4902	0.0652
Carbon Disulfide	4.566E-02	0.02
Carbon Tetrachloride	1.86	8.14
Chlorobenzene	7.53E-03	0.033
Chloroform	1.621E-03	7.1E-03
Chloromethane	0.0274	0.12
Chromium	2.283E-03	0.01
Cumene	2.7E-08	01.2E-07
Formaldehyde	7.99E-02	0.35
Hexane	1.5E-03	6.59E-03
Hydrochloric Acid	3.07E-02	0.135
Mercury Compounds	5.96E-03	0.0261
Methanol	3.69E-01	1.62
Methylene Chloride	2.055E-03	9.0E-03
Methyl Isobutyl Ketone	4.11E-03	0.018
Naphthalene	7.47E-03	0.0327
Nickel Compounds	1.393E-02	0.061

<i>Emissions Data</i> <u>(#4 Fuel Oil)</u>		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Barium	7.1E-03	0.031
Benz0(g,h,i)perylene	2.5E-04	1.1E-03
Copper	1.073E-03	4.7E-03
Manganese Compounds	6.32E-03	0.0277
Selenium compounds	1.74	7.616E-04
Vanadium compounds	3.196E-05	1.4E-04
<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>NCASI Bulletins 884 (Aug./2004) 175 646 (Feb 1993) NCASI SARA 313 Emission Factor Summary AP42 Tables 11.17-4 13.2.2 13.2.4 10.3-1</p>		

<i>Emissions Data</i> (Petcoke)		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	2.93	12.82
Nitrogen Oxides (NO _x)	27.33	119.69
Lead (Pb)	4.566E-03	0.02
Particulate Matter (PM _{2.5})	31.58	138.32
Particulate Matter (PM ₁₀)	31.58	138.32
Total Particulate Matter (TSP)	31.58	138.32
Sulfur Dioxide (SO ₂)	1.6	7.02
Volitile Organic Compounds (VOC)	0.744	3.26
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.1038	0.4547
Acrolein	3.4E-04	1.49E-03
Arsenic	4.52-05	1.98-04
Benzene	5.3E-03	0.0234
Carbon Disulfide	4.566E-02	0.02
Carbon Tetrachloride	1.86	8.14
Chlorobenzene	1.8E-04	7.79E-04
Chloroform	0.126	0.552
Chloromethane	0.0274	0.12
Chromium	2.283E-03	0.01
Cumene	3.24E-08	01.5E-07
Formaldehyde	7.99E-02	0.35
Hexane	3.4E-04	1.49E-03
Hydrochloric Acid	3.07E-02	0.135
Mercury Compounds	1.0E-08	4.38E-08
Methanol	9.2E-02	0.402
Methylene Chloride	6.78E-05	2.79E-04
Methyl Isobutyl Ketone	3.24E-03	1.42E-02
Naphthalene	7.44E-02	0.0326
Nickel Compounds	1.3	5.690

<i>Emissions Data</i> <i>(Petcoke)</i>		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Barium	6.849E-03	0.03
Benz0(g,h,i)perylene	9.132E-05	4.0E-04
Copper	2.83E-02	0.124
Manganese Compounds	0.146	0.6395
Selenium	2.24E-03	9.811E-03
Sulfuric Acid	1.415E-05	5.00E-05
Vanadium compounds	5.33	23.345
<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>NCASI Bulletins 884 (Aug./2004) 175 646 (Feb 1993) NCASI SARA 313 Emission Factor Summary AP42 Tables 11.17-4 13.2.2 13.2.4 10.3-1</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.

All Facility Wide applicable requirements are listed in Section 2: No. 20.

<u>Emission Point</u>	<u>Applicable Requirement</u>	<u>Permit Condition Number</u>	<u>Pollutant Parameter</u>	<u>Limit/Standard lbs/hr</u>
001	C.S.R. 45-7-4.1	4.1.4	PM	31.58
	C.S.R. 45-10-4.1	4.1.4	SO ₂	0.1(gas, #4), 0.05 (#2) 0.97(petcoke)
	C.S.R. 45-13	4.1.20	SO ₂	2000 ppmv
		4.1.4	CO	2.93(gas), 0.97(#2, #4) 4.22(petcoke)
		4.1.4	NO _x	27.33(gas), 19.08(#2, #4) 35.53 (petcoke)
		4.1.4	VOC	0.75(gas, Petcoke) 0.1(#2, #4)
001	C.S.R. 45-7-4.3	4.1.7	Stack Gas	Cannot be diluted by adding additional gas
001	C.S.R. 45-10-8.3a	4.4.3	All	Monitoring Data
001	C.S.R. 45-10-8.3b	4.5.1	All	Exception Report
001	40 CFR 63, Subpart MM	4.1.11	PM	0.064 gr/dscf (corr. 10% O ₂)
		4.2.3	Oper. Req/Test	Operation of CMS, Testing
		4.4.8, 4.4.9	Record Keeping	SSM Plan, CaO prod. rates
		4.5.3, 4.5.4	Reporting Req.	Quart. Or Semiannual excess Emissions report

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.)

All Facility Wide applicable requirements are listed in Section 2: No. 20

<u>Emission Point</u>	<u>Permit Condition Number</u>	<u>Method</u>	<u>Condition Number</u>
001	4.1.5, 4.1.15, 4.1.16	Visual Inspection and recordkeeping	4.2.2, 4.4.2, 4.4.4, 4.4.5
001	4.1.7	Conduct as required	4.1.7
001	4.4.3	Recordkeeping	4.4.4
001	4.5.1	Conduct as required	4.4.4
001	4.1.11	Testing (initial Method 5 or 29 Test)	4.2.3
	4.2.3	Operating requirements, Testing	4.2.3
	4.4.7	Record Keeping	4.4.7
	4.5.2, 4.5.3, 4.5.4	Reporting	4.5.2, 4.5.3, 4.5.4

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: 2S	Emission unit name: Silo Bin Vent Filter Fan	List any control devices associated with this emission unit. 2C Silo Bin filter Vent
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
180 ton Storage Silo for petcoke

Manufacturer:	Model number:	Serial number:
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Construction date: 07/01/2008	Installation date: 09/01/2008	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 180 tons of Petcoke

Maximum Hourly Throughput: 2.67 tons/hr	Maximum Annual Throughput: 23,389 Tons	Maximum Operating Schedule: 8,760 hours per year
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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
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Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
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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.

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

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
None			

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.04	0.01
Particulate Matter (PM ₁₀)	0.04	0.01
Total Particulate Matter (TSP)	0.08	0.02
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.).

Title V Permit R30-05700008-2007
Condition 4.1.16

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 003	Emission unit name: Storage Pile Chip Unloading	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.):
Wood chip truck unloading operation

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1985	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 132.00 tons/hr

Maximum Hourly Throughput: 132.00 tons/hr	Maximum Annual Throughput: 727,584 Tons/Yr	Maximum Operating Schedule: 5,512 hours per year
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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
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Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
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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.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	1.81E-04	5.0E-04
Particulate Matter (PM ₁₀)	1.04E-03	2.87E-03
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.).

Factor from NCASI Special Report No. 15-01 January 2015
 Table 10.3-1 AP 42
 Factor 3.1% (product vs sawdust)

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 3S	Emission unit name: Densi-Filter Exhaust Fan	List any control devices associated with this emission unit. 3C Densi-Filter (Baghouse)
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Densi-Feed Petroleum Coke Burner Feed system

Manufacturer:	Model number:	Serial number:
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Construction date: 07/01/2008	Installation date: 09/01/2008	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 2.67 tons/hr

Maximum Hourly Throughput: 2.67 tons/hr	Maximum Annual Throughput: 23,389.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners:
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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.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.01	0.01
Particulate Matter (PM ₁₀)	0.01	0.01
Total Particulate Matter (TSP)	0.02	0.01
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.).

Title V Permit R30-05700008-2007

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 004	Emission unit name: Screen House Chip Unloading	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.):
Screen House chip unloading

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1960	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 150.00 Tons/hr

Maximum Hourly Throughput: 150.00	Maximum Annual Throughput: 826,800 Tons/yr	Maximum Operating Schedule: 5,512 hours per year
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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:	Type and Btu/hr rating of burners: 0.00
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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.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	9.83E-05	2.71E-04
Particulate Matter (PM ₁₀)	5.62E-04	1.55E-03
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.).

Factor from NCASI Special Report No. 15-01 January 2015
 Table 10.3-1 AP 42
 Factor 3.1% (product vs sawdust)

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 005	Emission unit name: Log Truck Unloading	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.):
 Log truck unloading operations
 There are trace amounts of TSP and PM10 emitted from this operation.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1960	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 300.00 tons/hr

Maximum Hourly Throughput: 300.00 tons/hr	Maximum Annual Throughput: 2,628,000 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners:
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 006	Emission unit name: Rail Car Unloading	List any control devices associated with this emission unit.
--	--	---

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
 Rail Car unloading operations
 There are trace amounts of TSP and PM10 emitted from this operation.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1960	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 300.00 tons/hr

Maximum Hourly Throughput: 300.00 tons/hr	Maximum Annual Throughput: 2,628,000 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners:
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 007	Emission unit name: Loading Areas	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.):
Loading Areas for woodyard cleanup.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1960	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.00 tons/hr

Maximum Hourly Throughput: 16.00 tons/hr	Maximum Annual Throughput: 140,160 Tons/yr	Maximum Operating Schedule: 5,512 hours per year
--	--	--

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:	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})	1.04E-05	2.89E-05
Particulate Matter (PM ₁₀)	6.44E-04	1.65E-04
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
<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>Table 10.3-1 AP 42 Factor 3.1% (product vs sawdust) Factor from NCASI Special Report No. 15-01 January 2015</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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 008	Emission unit name: Woodyard Roads	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.):
Roadways used for raw material transfers and access.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1985	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 5.65 veh-mi

Maximum Hourly Throughput: 5.65 veh-mi	Maximum Annual Throughput: 49,494 veh-mi	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners: 0.00
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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.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.48858	2.14
Particulate Matter (PM ₁₀)	0.48858	2.14
Total Particulate Matter (TSP)	1.87443	8.21
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.).

Factor 1.0 lb/Ton
Table 10.3-1 AP 42

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 009	Emission unit name: Scrap Wood Unloading	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.):
Scrap wood unloading operation.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1960	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.00 tons/hr

Maximum Hourly Throughput: 16.00 tons/hr	Maximum Annual Throughput: 140,160 Tons/yr	Maximum Operating Schedule: 5,512 hours per year
--	--	--

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:	Type and Btu/hr rating of burners:
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	4.3E-04	1.19E-03
Particulate Matter (PM ₁₀)	2.44E-03	6.73E-03
Total Particulate Matter (TSP)	2.48E-04	2.17
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
<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>Factor from NCASI Special Report No. 15-01 January 2015 Table 10.3-1 AP 42 Factor 3.1% (product vs sawdust)</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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 010	Emission unit name: Wood Chip Storage	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.):
Storage pile for wood chips.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1960	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 500.00 Tons/hr

Maximum Hourly Throughput: 500.00 Tons/hr	Maximum Annual Throughput: 4,380,000 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners: 0.00
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	4.34E-04	1.9E-03
Particulate Matter (PM ₁₀)	2.49E-03	1.09E-02
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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Applicable Requirement</u>	<u>Permit Condition Number</u>	<u>Pollutant Parameter</u>	<u>Limit/Standard</u>
010	C.S.R. 45-7-3.7	4.1.3	PM	Visible Emissions

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Permit Condition Number</u>	<u>Method</u>	<u>Condition Number</u>
010	4.1.3	Visible Emissions and Recordkeeping	4.2.2

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: 011	Emission unit name: Roundwood Storage	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.):
Log Storage.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1960	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 500.00 Tons/hr

Maximum Hourly Throughput: 500.00 Tons/hr	Maximum Annual Throughput: 4,380,000 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners: 0.00
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	4.34E-04	1.9E-03
Particulate Matter (PM ₁₀)	2.49E-03	1.09E-02
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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Applicable Requirement</u>	<u>Permit Condition Number</u>	<u>Pollutant Parameter</u>	<u>Limit/Standard</u>
011	C.S.R. 45-7-3.7	4.1.3	PM	Visible Emissions

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Permit Condition Number</u>	<u>Method</u>	<u>Condition Number</u>
011	4.1.3	Visible Emissions and Recordkeeping	4.2.2

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: 012	Emission unit name: Bark storage	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.):
Bark Storage Pile.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1960	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 84.00 Tons/hr

Maximum Hourly Throughput: 84.00 Tons/hr	Maximum Annual Throughput: 735,840 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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:	Type and Btu/hr rating of burners: 0.00
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Applicable Requirement</u>	<u>Permit Condition Number</u>	<u>Pollutant Parameter</u>	<u>Limit/Standard</u>
012	C.S.R. 45-7-3.7	4.1.3	PM	Visible Emissions

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Permit Condition Number</u>	<u>Method</u>	<u>Condition Number</u>
012	4.1.3	Visible Emissions and Recordkeeping	4.2.2

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: 013	Emission unit name: Slasher Deck	List any control devices associated with this emission unit.
--	--	---

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Saw logs to 4 foot lengths

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1985	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 400.00 tons/hr

Maximum Hourly Throughput: 400.00 tons/hr	Maximum Annual Throughput: 3,504,000 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners:
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.219	0.96
Particulate Matter (PM ₁₀)	1.24	5.43
Total Particulate Matter (TSP)	50.0	219.0
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.).

Factor 1.0 lb/Ton
Table 10.3-1 AP 42

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Applicable Requirement</u>	<u>Permit Condition Number</u>	<u>Pollutant Parameter</u>	<u>Limit/Standard</u>
013	C.S.R. 45-7-4.1	4.1.6	PM	50.0 lbs/hr

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Permit Condition Number</u>	<u>Method</u>	<u>Condition Number</u>
013	4.1.6	Recordkeeping	4.2.2, 4.4.6

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: 014	Emission unit name: Log Moving Conveyors	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.):
Move logs through process

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1985	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 600.00 Tons/yr

Maximum Hourly Throughput: 600.00 Tons/yr	Maximum Annual Throughput: 5,256,000Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners: 0.00
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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.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 015	Emission unit name: Debarking Drum	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.):
Log debarking operation

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1985	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 600.00 tons/hr

Maximum Hourly Throughput: 600.00 tons/hr	Maximum Annual Throughput: 5,256,000 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners:
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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.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.33	1.45
Particulate Matter (PM ₁₀)	1.86	8.15
Total Particulate Matter (TSP)	50.0	219
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.).

Factor 1.0 lb/Ton
Table 10.3-1 AP 42

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Applicable Requirement</u>	<u>Permit Condition Number</u>	<u>Pollutant Parameter</u>	<u>Limit/Standard</u>
015	C.S.R. 45-7-4.1	4.1.6	PM	50.0 lbs/hr

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Permit Condition Number</u>	<u>Method</u>	<u>Condition Number</u>
015	4.1.6	Recordkeeping	4.2.2, 4.4.6

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: 016	Emission unit name: Bark Moving Conveyors	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.):
Transporting Bark through process

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1985	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 84.00 Tons/yr

Maximum Hourly Throughput: 84.00 Tons/yr	Maximum Annual Throughput: 735,000 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners: 0.00
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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.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 017	Emission unit name: Bark Loading Building	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.):
Bark and sawdust loaded into trucks.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1985	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 93.30 tons/hr

Maximum Hourly Throughput: 93.30 tons/hr	Maximum Annual Throughput: 817,308 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.018	0.08
Particulate Matter (PM ₁₀)	0.12	0.53
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.).

Factor from NCASI Special Report No. 15-01 January 2015
Table 10.3-1 AP 42

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 018	Emission unit name: Chipper	List any control devices associated with this emission unit. Chipper Cyclone
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Wood chipping operation

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1960	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 375.00 Tons/hr

Maximum Hourly Throughput: 375.00	Maximum Annual Throughput: 3,285,000 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners: 0.00
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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.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	6.39E-03	2.8E-02
Particulate Matter (PM ₁₀)	3.6E-03	0.0158
Total Particulate Matter (TSP)	50	219
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.).

Factor 1.0 lb/Ton
 Table 10.3-1 AP 42
 Factor 3.1% (product vs sawdust)

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Applicable Requirement</u>	<u>Permit Condition Number</u>	<u>Pollutant Parameter</u>	<u>Limit/Standard</u>
018	C.S.R. 45-7-4.1	4.1.6	PM	50.0 lbs/hr

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Permit Condition Number</u>	<u>Method</u>	<u>Condition Number</u>
018	4.1.6	Recordkeeping	4.2.2, 4.4.6

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: 019	Emission unit name: Chip Moving Conveyors	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.):
Moving Chips through process

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1985	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 550.00 Tons/yr

Maximum Hourly Throughput: 550.00 Tons/yr	Maximum Annual Throughput: 4,818,000 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners: 0.00
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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.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	9.38E-03	4.11E-02
Particulate Matter (PM ₁₀)	5.3E-02	2.32E-01
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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 020	Emission unit name: Radial Arm Stacker	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.):
Transfer wood chips to storage pile.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1985	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 150.00 Tons/hr

Maximum Hourly Throughput: 150.00	Maximum Annual Throughput: 1,314,000 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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
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Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners: 0.00
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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.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM ₁₀)	2.3E-03	0.01
Particulate Matter (PM ₁₀)	0.014	0.06
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.).

Factor from NCASI Special Report No. 15-01 January 2015
 Table 10.3-1 AP 42
 Factor 3.1% (product vs sawdust)

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 021	Emission unit name: Linear Stacker	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.):
Transfer wood chips to storage pile.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1985	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 550.00 Tons/hr

Maximum Hourly Throughput: 550.00	Maximum Annual Throughput: 4,818,000Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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
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Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners: 0.00
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	9.1E-03	0.04
Particulate Matter (PM ₁₀)	0.05	0.23
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.).

Factor from NCASI Special Report No. 15-01 January 2015
 Table 10.3-1 AP 42
 Factor 3.1% (product vs sawdust)

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 022	Emission unit name: Scalper	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.):
Separates chips from rejects knots and shives.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1985	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 300.00 Tons/hr

Maximum Hourly Throughput: 300.00	Maximum Annual Throughput: 2,628,000 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners: 0.00
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	4.57E-03	0.02
Particulate Matter (PM ₁₀)	2.97E-02	0.13
Total Particulate Matter (TSP)	50	219
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.).

Factor 1.0 lb/Ton
 Factor from NCASI Special Report No. 15-01 January 2015
 Table 10.3-1 AP 42
 Factor 3.1% (product vs sawdust)

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Applicable Requirement</u>	<u>Permit Condition Number</u>	<u>Pollutant Parameter</u>	<u>Limit/Standard</u>
022	C.S.R. 45-7-4.1	4.1.6	PM	50.0 lbs/hr

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Permit Condition Number</u>	<u>Method</u>	<u>Condition Number</u>
022	4.1.6	Recordkeeping	4.2.2, 4.4.6

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: 023	Emission unit name: Screen House	List any control devices associated with this emission unit. Screening Fabric Filter
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Wood chip screening operation.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1960	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 300.00 Tons/hr

Maximum Hourly Throughput: 300.00	Maximum Annual Throughput: 2,628,000 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners: 0.00
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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.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	4.57E-03	0.02
Particulate Matter (PM ₁₀)	2.97E-02	0.13
Total Particulate Matter (TSP)	50	219
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.).

Factor 1.0 lb/Ton
 Factor from NCASI Special Report No. 15-01 January 2015
 Table 10.3-1 AP 42
 Factor 3.1% (product vs sawdust)

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Applicable Requirement</u>	<u>Permit Condition Number</u>	<u>Pollutant Parameter</u>	<u>Limit/Standard</u>
023	C.S.R. 45-7-4.1	4.1.6	PM	50.0 lbs/hr

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Permit Condition Number</u>	<u>Method</u>	<u>Condition Number</u>
023	4.1.6	Recordkeeping	4.2.2, 4.4.6

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: 024	Emission unit name: Sawdust Building	List any control devices associated with this emission unit. Sawdust Building Cyclone
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Building for transfer chute for sawdust collection.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1985	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 10.00 Tons/hr

Maximum Hourly Throughput: 9.30	Maximum Annual Throughput: 81,468 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
---	---	--

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
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Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners: 0.00
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	1.59E-04	6.95E-04
Particulate Matter (PM ₁₀)	8.9E-04	3.91E-03
Total Particulate Matter (TSP)	0.28767	1.26
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.).

Factor 1.0 lb/Ton
 Factor from NCASI Special Report No. 15-01 January 2015
 Table 10.3-1 AP 42
 Factor 3.1% (product vs sawdust)

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 025	Emission unit name: Sawdust Loading	List any control devices associated with this emission unit. Sawdust Loading Cyclone
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Secondary sawdust loading station – used on weekends only.

Manufacturer:	Model number:	Serial number:
Construction date: MM/DD/YYYY	Installation date: 01/01/1960	Modification date(s): MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 10.00 Tons/hr

Maximum Hourly Throughput: 9.30	Maximum Annual Throughput: 81,468 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners: 0.00
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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.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	1.59E-04	6.95E-04
Particulate Matter (PM ₁₀)	8.9E-04	3.91E-03
Total Particulate Matter (TSP)	0.28767	1.26
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.).

Factor 1.0 lb/Ton
 Factor from NCASI Special Report No. 15-01 January 2015
 Table 10.3-1 AP 42
 Factor 3.1% (product vs sawdust)

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 026	Emission unit name: Rechipper	List any control devices associated with this emission unit. Rechipper Cyclone
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Rechipping of oversize chips

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1960	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 12.00 Tons/hr

Maximum Hourly Throughput: 12.00	Maximum Annual Throughput: 105,120 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners: 0.00
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	3.3E-04	1.45E-03
Particulate Matter (PM ₁₀)	2.28E-03	0.01
Total Particulate Matter (TSP)	18.4	80.59
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.).

Factor 1.0 lb/Ton
 Factor from NCASI Special Report No. 15-01 January 2015
 Table 10.3-1 AP 42

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Applicable Requirement</u>	<u>Permit Condition Number</u>	<u>Pollutant Parameter</u>	<u>Limit/Standard</u>
026	C.S.R. 45-7-4.1	4.1.6	PM	18.4 lbs/hr

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Permit Condition Number</u>	<u>Method</u>	<u>Condition Number</u>
026	4.1.6	Recordkeeping	4.2.2, 4.4.6

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: 027	Emission unit name: Parts Washer – Maint. Bld.	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.):
Maintenance building parts washer.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1985	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 1.00 Gal/hr

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners: 0.00
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.011	0.05
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.).

NCASI Bulletins
884 (Aug./2004)
175
646 (Feb 1993)
NCASI SARA 313 Emission Factor Summary

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 029	Emission unit name: No. 1 Green Liquor Tank	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.):
Storage of green liquor

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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:	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

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 030	Emission unit name: 150,000 Gal. Tank	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.):
Swing tank for gren liquor or lime mud washer underflow

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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:	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

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 031	Emission unit name: Lime Slaker #16	List any control devices associated with this emission unit. No. 16 Slaker Scrubber
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Slaking of lime with green liquor

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
---	---	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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:	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})	3.42	14.96
Particulate Matter (PM ₁₀)	6.73	29.48
Total Particulate Matter (TSP)	6.73	29.48
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.18	0.81
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	4.7E-02	.206
Acrolein	8.17E-04	3.58E-03
Benzene	5.022E-05	2.2E-04
Hexane	3.68E-05	1.61E-04
Methanol	0.87	3.82
Methylene Chloride	2.05E-02	9.0E-02
Methyl Isobutyl Ketone	1.42E-04	6.2E-04
Phenol	4.0E-03	1.75E-02
Propionaldehyde	1.0E-03	4.4E-03
Styrene	1.67E-04	7.3E-04
Tetrachloroethylene	1.2E-03	5.27E-3
Toluene	2.9E-03	1.27E-02
1,2,4 - Trichlorobenzene	1.62E-04	7.1E-04
Xylene	1.33E-04	5.84E-04

Emissions Data

Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Ammonia	4.84	21.18
Formaldehyde	1.19E-04	5.21E-04

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.).

NCASI Bulletins
884 (Aug./2004)
175
646 (Feb 1993)
NCASI SARA 313 Emission Factor Summary
AP42 Tables
11.17-4
13.2.2
13.2.4
10.3-1

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Applicable Requirement</u>	<u>Permit Condition Number</u>	<u>Pollutant Parameter</u>	<u>Limit/Standard</u>
031	C.S.R. 45-7-4.1	4.1.6	PM	6.83 lbs/hr

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Permit Condition Number</u>	<u>Method</u>	<u>Condition Number</u>
031	4.1.6	Recordkeeping	4.2.2, 4.4.6

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: 032	Emission unit name: No. 1 Causticizer	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.):
Converts sodium Carbonate to sodium Hydroxide

Manufacturer:	Model number:	Serial number:
Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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:	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})	3.42	14.96
Particulate Matter (PM ₁₀)	6.73	29.48
Total Particulate Matter (TSP)	6.73	29.48
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.18	0.81
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	4.7E-02	.206
Acrolein	8.17E-04	3.58E-03
Benzene	5.022E-05	2.2E-04
Hexane	3.68E-05	1.61E-04
Methanol	0.87	3.82
Methylene Chloride	2.05E-02	9.0E-02
Methyl Isobutyl Ketone	1.42E-04	6.2E-04
Phenol	4.0E-03	1.75E-02
Propionaldehyde	1.0E-03	4.4E-03
Styrene	1.67E-04	7.3E-04
Tetrachloroethylene	1.2E-03	5.27E-3
Toluene	2.9E-03	1.27E-02
1,2,4 - Trichlorobenzene	1.62E-04	7.1E-04
Xylene	1.33E-04	5.84E-04

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 033	Emission unit name: No. 2 Causticizer	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.):
 Converts sodium Carbonate to sodium Hydroxide

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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:	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})	3.42	14.96
Particulate Matter (PM ₁₀)	6.73	29.48
Total Particulate Matter (TSP)	6.73	29.48
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.18	0.81
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	4.7E-02	.206
Acrolein	8.17E-04	3.58E-03
Benzene	5.022E-05	2.2E-04
Hexane	3.68E-05	1.61E-04
Methanol	0.87	3.82
Methylene Chloride	2.05E-02	9.0E-02
Methyl Isobutyl Ketone	1.42E-04	6.2E-04
Phenol	4.0E-03	1.75E-02
Propionaldehyde	1.0E-03	4.4E-03
Styrene	1.67E-04	7.3E-04
Tetrachloroethylene	1.2E-03	5.27E-3
Toluene	2.9E-03	1.27E-02
1,2,4 - Trichlorobenzene	1.62E-04	7.1E-04
Xylene	1.33E-04	5.84E-04

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 034	Emission unit name: No. 3 Causticizer	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.):
Converts sodium Carbonate to sodium Hydroxide

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	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})	3.42	14.96
Particulate Matter (PM ₁₀)	6.73	29.48
Total Particulate Matter (TSP)	6.73	29.48
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.18	0.81
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	4.7E-02	.206
Acrolein	8.17E-04	3.58E-03
Benzene	5.022E-05	2.2E-04
Hexane	3.68E-05	1.61E-04
Methanol	0.87	3.82
Methylene Chloride	2.05E-02	9.0E-02
Methyl Isobutyl Ketone	1.42E-04	6.2E-04
Phenol	4.0E-03	1.75E-02
Propionaldehyde	1.0E-03	4.4E-03
Styrene	1.67E-04	7.3E-04
Tetrachloroethylene	1.2E-03	5.27E-3
Toluene	2.9E-03	1.27E-02
1,2,4 - Trichlorobenzene	1.62E-04	7.1E-04
Xylene	1.33E-04	5.84E-04

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 035	Emission unit name: White Liquor Clarifier	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.):
Separate white liquor from lime mud

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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:	Type and Btu/hr rating of burners:
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.28	1.22
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Benzene	4.68E-04	2.05E-03
Formaldehyde	0.036	0.156
Methanol	0.242	1.06
Styrene	7.92E-04	3.47E-03
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.).

NCASI Bulletins
884 (Aug./2004)
175
646 (Feb 1993)
NCASI SARA 313 Emission Factor Summary
AP42 Tables
11.17-4
13.2.2
13.2.4
10.3-1

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 036	Emission unit name: Lime Slaker #6	List any control devices associated with this emission unit. No. 6 Slaker Scrubber
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Slaking of lime with water

Manufacturer:	Model number:	Serial number:
Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	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})	3.42	14.96
Particulate Matter (PM ₁₀)	6.73	29.48
Total Particulate Matter (TSP)	6.73	29.48
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.18	0.81
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	4.7E-02	.206
Acrolein	8.17E-04	3.58E-03
Benzene	5.022E-05	2.2E-04
Hexane	3.68E-05	1.61E-04
Methanol	0.87	3.82
Methylene Chloride	2.05E-02	9.0E-02
Methyl Isobutyl Ketone	1.42E-04	6.2E-04
Phenol	4.0E-03	1.75E-02
Propionaldehyde	1.0E-03	4.4E-03
Styrene	1.67E-04	7.3E-04
Tetrachloroethylene	1.2E-03	5.27E-3
Toluene	2.9E-03	1.27E-02
1,2,4 - Trichlorobenzene	1.62E-04	7.1E-04
Xylene	1.33E-04	5.84E-04

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Applicable Requirement</u>	<u>Permit Condition Number</u>	<u>Pollutant Parameter</u>	<u>Limit/Standard</u>
031	C.S.R. 45-7-4.1	4.1.6	PM	6.83 lbs/hr

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Permit Condition Number</u>	<u>Method</u>	<u>Condition Number</u>
031	4.1.6	Recordkeeping	4.2.2, 4.4.6

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: 037	Emission unit name: Mud Washer	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.):
Separate lime mud from weak liquor

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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:	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

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 038	Emission unit name: No. 3 Mud Filter Tank	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.):
Lime Mud storage

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	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

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 039	Emission unit name: No. 1 Vacuum Pump	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.):
Extracts water from lime mud

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
---	---	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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:	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)	0.71	3.1
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	1.23E-01	5.4E-01
Benzene	6.39E-05	2.8E-04
Carbon Disulfide	6.14E-04	2.69E-03
Hexane	1.08E-03	4.75E-03
Methanol	0.566	2.48
Methylene Chloride	4.02E-04	1.76E-03
Methyl isobutyl Ketone	2.26E-03	9.92E-03
Phenol	8.4E-03	3.68E-02
Propionaldehyde	5.5E-03	2.41E-02
Styrene	2.24E-04	9.8E-04
Toluene	1.62E-04	7.08E-04
1,2,4 Trichlorobenzene	4.91E-03	2.15E-02
Xylene	3.72E-04	1.63E-03

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 040	Emission unit name: No. 2 Vacuum Pump	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.):
Extracts water from lime mud

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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:	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)	0.71	3.1
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	1.23E-01	5.4E-01
Benzene	6.39E-05	2.8E-04
Carbon Disulfide	6.14E-04	2.69E-03
Hexane	1.08E-03	4.75E-03
Methanol	0.566	2.48
Methylene Chloride	4.02E-04	1.76E-03
Methyl isobutyl Ketone	2.26E-03	9.92E-03
Phenol	8.4E-03	3.68E-02
Propionaldehyde	5.5E-03	2.41E-02
Styrene	2.24E-04	9.8E-04
Toluene	1.62E-04	7.08E-04
1,2,4 Trichlorobenzene	4.91E-03	2.15E-02
Xylene	3.72E-04	1.63E-03

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 041	Emission unit name: No. 1 Mud Filter	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.):
No. 1 mud wash filter hood exhaust

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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:	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)	0.2	0.87
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.025	0.11
Acrolein	8.61E-04	3.77E-03
Benzene	1.94E-04	8.5E-04
Formaldehyde	2.3E-03	0.01
Hexane	2.35E-04	1.03E-03
Methanol	0.16	0.72
Methylene Chloride	6.78E-04	2.97E-03
Methyl isobutyl Ketone	9.22E-04	4.04E-03
Styrene	1.33E-04	5.81E-04
Tetrachloroethylene	2.7E-04	1.2E-03
Toluene	2.1E-03	9.21E-03
1,2, 4 Trichlorobenzene	1.39E-04	6.09E-04
1,1,1 Trichloroethane	9.6E-04	4.2E-03
Trichloroethylene	1.0E-04	4.39E-04
Xylene	5.5E-04	2.41E-03

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 042	Emission unit name: No. 2 Mud Filter	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.):
No. 2 mud wash filter hood exhaust

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	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)	0.2	0.87
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.025	0.11
Acrolein	8.61E-04	3.77E-03
Benzene	1.94E-04	8.5E-04
Formaldehyde	2.3E-03	0.01
Hexane	2.35E-04	1.03E-03
Methanol	0.16	0.72
Methylene Chloride	6.78E-04	2.97E-03
Methyl isobutyl Ketone	9.22E-04	4.04E-03
Styrene	1.33E-04	5.81E-04
Tetrachloroethylene	2.7E-04	1.2E-03
Toluene	2.1E-03	9.21E-03
1,2, 4 Trichlorobenzene	1.39E-04	6.09E-04
1,1,1 Trichloroethane	9.6E-04	4.2E-03
Trichloroethylene	1.0E-04	4.39E-04
Xylene	5.5E-04	2.41E-03

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 043	Emission unit name: Mud Filter Filtrate Tank	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.):
Storage Tank for lime mud filtration

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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:	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)	0.2	0.87
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.025	0.11
Acrolein	8.61E-04	3.77E-03
Benzene	1.94E-04	8.5E-04
Formaldehyde	2.3E-03	0.01
Hexane	2.35E-04	1.03E-03
Methanol	0.16	0.72
Methylene Chloride	6.78E-04	2.97E-03
Methyl isobutyl Ketone	9.22E-04	4.04E-03
Styrene	1.33E-04	5.81E-04
Tetrachloroethylene	2.7E-04	1.2E-03
Toluene	2.1E-03	9.21E-03
1,2, 4 Trichlorobenzene	1.39E-04	6.09E-04
1,1,1 Trichloroethane	9.6E-04	4.2E-03
Trichloroethylene	1.0E-04	4.39E-04
Xylene	5.5E-04	2.41E-03

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 044	Emission unit name: Calibration Tank	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.):
Storage Tank for lime mud filter belt wash

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	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)	0.2	0.87
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.025	0.11
Acrolein	8.61E-04	3.77E-03
Benzene	1.94E-04	8.5E-04
Formaldehyde	2.3E-03	0.01
Hexane	2.35E-04	1.03E-03
Methanol	0.16	0.72
Methylene Chloride	6.78E-04	2.97E-03
Methyl isobutyl Ketone	9.22E-04	4.04E-03
Styrene	1.33E-04	5.81E-04
Tetrachloroethylene	2.7E-04	1.2E-03
Toluene	2.1E-03	9.21E-03
1,2, 4 Trichlorobenzene	1.39E-04	6.09E-04
1,1,1 Trichloroethane	9.6E-04	4.2E-03
Trichloroethylene	1.0E-04	4.39E-04
Xylene	5.5E-04	2.41E-03

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 045	Emission unit name: No. 16 Slaker Feeder	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.):
Feeder System for lime slaker

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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:	Type and Btu/hr rating of burners:
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (pb)		
Particulate Matter (PM _{2.5})	0.62	2.73
Particulate Matter (PM ₁₀)	1.98	8.68
Total Particulate Matter (TSP)	9.86	43.2
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.).
 NCASI Bulletins
 884 (Aug./2004)
 175
 646 (Feb 1993)
 NCASI SARA 313 Emission Factor Summary
 AP42 Tables
 11.17-4
 13.2.2
 13.2.4
 10.3-1

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 046	Emission unit name: No. 6 Slaker Feeder	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.):
Feeder System for lime slaker

Manufacturer:	Model number:	Serial number:
Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 16.17 tons/hr

Maximum Hourly Throughput: 16.17 tons/hr	Maximum Annual Throughput: 141,649.2 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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
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Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (pb)		
Particulate Matter (PM _{2.5})	0.62	2.73
Particulate Matter (PM ₁₀)	1.98	8.68
Total Particulate Matter (TSP)	9.86	43.2
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.).
 NCASI Bulletins
 884 (Aug./2004)
 175
 646 (Feb 1993)
 NCASI SARA 313 Emission Factor Summary
 AP42 Tables
 11.17-4
 13.2.2
 13.2.4
 10.3-1

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 047	Emission unit name: Limestone Unloading	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.):
Limestone unloading

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 50.00 tons/hr

Maximum Hourly Throughput: 50.00 tons/hr	Maximum Annual Throughput: 438,000 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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
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Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (pb)		
Particulate Matter (PM _{2.5})	1.0	4.38
Particulate Matter (PM ₁₀)	1.0	4.38
Total Particulate Matter (TSP)	3.0	13.14
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.).
 NCASI Bulletins
 884 (Aug./2004)
 175
 646 (Feb 1993)
 NCASI SARA 313 Emission Factor Summary
 AP42 Tables
 11.17-4
 13.2.2
 13.2.4
 10.3-1

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 048	Emission unit name: Pebble Lime Unloading	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.):
Pebble Lime unloading

Manufacturer:	Model number:	Serial number:
Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 20.00 tons/hr

Maximum Hourly Throughput: 20.00 tons/hr	Maximum Annual Throughput: 175,000 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
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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
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Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
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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.

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})	0.17	0.74
Particulate Matter (PM ₁₀)	1.7	7.44
Total Particulate Matter (TSP)	24.2557	106.24
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP		
	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.). NCASI Bulletins 884 (Aug./2004) 175 646 (Feb 1993) NCASI SARA 313 Emission Factor Summary AP42 Tables 11.17-4 13.2.2 13.2.4 10.3-1</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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 049	Emission unit name: Auxiliary Gas Drive Motor	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.):
Gasoline-fired engine used to drive the lime kiln in the event of a power outage. Only used in an emergency.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 0.16 mm Btu/hr

Maximum Hourly Throughput: 0.228 gals/hr	Maximum Annual Throughput: 2,000 gals/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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: 0.16 mm BTU/hr	Type and Btu/hr rating of burners: Gasoline 135 mm BTU/hr per 1,000 gals burned
--	--

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.
Gasoline

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

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Gasoline			135 mm Btu/hr
			per 1,000 gals burned

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	7.831	34.3
Nitrogen Oxides (NO _x)	0.20319	0.89
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)	0.0114155	0.05
Total Particulate Matter (TSP)	0.0114155	0.05
Sulfur Dioxide (SO ₂)	0.0114155	0.05
Volatile Organic Compounds (VOC)	0.20319	0.89
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP		
	PPH	

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.).

NCASI Bulletins
884 (Aug./2004)
175
646 (Feb 1993)
NCASI SARA 313 Emission Factor Summary
AP42 Tables
11.17-4
13.2.2
13.2.4
10.3-1

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 050	Emission unit name: Access Roads	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.):
Roads used to haul fly ash and miscellaneous raw materials.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 4.25 tons/hr

Maximum Hourly Throughput: 4.25 tons/hr	Maximum Annual Throughput: 37,230 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
---	---	--

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:	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})	2.84	12.44
Particulate Matter (PM ₁₀)	2.84	12.44
Total Particulate Matter (TSP)	9.56	41.88
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP		
	PPH	
<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>Factor 1.0 lb/Ton Table 10.3-1 AP 42</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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 051	Emission unit name: Fly Ash Handling	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.):
Boiler fly ash handling system

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 60.00 tons/hr

Maximum Hourly Throughput: 65.00 tons/hr	Maximum Annual Throughput: 162,240 Tons/yr	Maximum Operating Schedule: 2,496 hours per year
--	--	--

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:	Type and Btu/hr rating of burners:
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	1.6E-02	1.95E-02
Particulate Matter (PM ₁₀)	1.6E-02	1.95E-02
Total Particulate Matter (TSP)	1.6E-02	1.95E-02
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP		
	PPH	

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.).

AP 42
13.2.4

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Applicable Requirement</u>	<u>Permit Condition Number</u>	<u>Pollutant Parameter</u>	<u>Limit/Standard</u> Control Device
051	C.S.R. 45-2-5.1	4.1.10	Fugitive Emissions	

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

<u>Emission Point</u>	<u>Permit Condition Number</u>	<u>Method</u>	<u>Condition Number</u>
051	4.1.10	Conduct as Required	4.1.10

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: 052	Emission unit name: Parts Washer	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.):
Parts degreasing.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 1.00 Gal/hr

Maximum Hourly Throughput: 1.00 Gal/hr	Maximum Annual Throughput: 8,760 Gal/yr	Maximum Operating Schedule: 8,760 hours per year
--	---	--

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:	Type and Btu/hr rating of burners: 0.00
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.011	0.05
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.).

NCASI Bulletins
884 (Aug./2004)
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646 (Feb 1993)
NCASI SARA 313 Emission Factor Summary

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 054	Emission unit name: Cotton Roll Grinding	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.):
Grinding lathe removes defects on cotton rolls used in papermaking

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1989	Modification date(s): MM/DD/YYYY
---	---	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 3 rolls/day

Maximum Hourly Throughput: 3 rolls/day	Maximum Annual Throughput: 1,095 rolls/yr	Maximum Operating Schedule: 8,760 hours per year
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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:	Type and Btu/hr rating of burners:
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.03	0.15
Particulate Matter (PM ₁₀)	0.03	0.15
Total Particulate Matter (TSP)	0.03	0.15
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP		
	PPH	

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.).

Factor 1.0 lb/Ton
Table 10.3-1 AP 42

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 055	Emission unit name: Paved Roads	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.):
Paved access roads to receiving warehouse.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
---	---	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 2.396 tons/hr

Maximum Hourly Throughput: 2.396 tons/hr	Maximum Annual Throughput: 20,988.96 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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:	Type and Btu/hr rating of burners:
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.27	1.19
Particulate Matter (PM ₁₀)	0.27	1.19
Total Particulate Matter (TSP)	1.41	6.2
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP		
	PPH	

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.).

Factor 1.0 lb/Ton
Table 10.3-1 AP 42

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 057	Emission unit name: Bark Unloading	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.):
Unloading of bark onto storage pile.

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
---	---	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 93.30 tons/hr

Maximum Hourly Throughput: 93.30 tons/hr	Maximum Annual Throughput: 817,308 Toms/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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:	Type and Btu/hr rating of burners:
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 056	Emission unit name: Parts Washer	List any control devices associated with this emission unit.
--	--	---

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

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

Construction date: MM/DD/YYYY	Installation date: 01/01/1989	Modification date(s): MM/DD/YYYY
---	---	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 1.00 Gal/hr

Maximum Hourly Throughput: 1.00 Gal/hr	Maximum Annual Throughput: 8,760 Gal/yr	Maximum Operating Schedule: 8,760 hours per year
--	---	--

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:	Type and Btu/hr rating of burners: 0.00
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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.

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

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

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)	0.011	0.05
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.).

NCASI Bulletins
884 (Aug./2004)
175
646 (Feb 1993)
NCASI SARA 313 Emission Factor Summary

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 058	Emission unit name: Liquor Storage Tank	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.):
Storage of black or white liquor from MD pulping operations

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1965	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 20.00 tons/hr

Maximum Hourly Throughput: 20.00 tons/hr	Maximum Annual Throughput: 175,200 Tons/yr	Maximum Operating Schedule: 8,760 hours per year
--	--	--

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:	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

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 060	Emission unit name: No. 2 Fuel Oil Tank	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.):
No. 2 Fuel oil storage tank for Kiln

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 1,500 gallons

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule: 8,760 hours per year
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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
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Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
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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.

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

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

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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: 061	Emission unit name: Auxiliary Gas Drive Motor Fuel Tank	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.):
Gasoline fuel tank for auxiliary Gas drive Motor

Manufacturer:	Model number:	Serial number:
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Construction date: MM/DD/YYYY	Installation date: 01/01/1966	Modification date(s): MM/DD/YYYY
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 150 gallons

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule: 8,760 hours per year
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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
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Maximum design heat input and/or maximum horsepower rating:	Type and Btu/hr rating of burners:
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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.

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

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

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.

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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.)

All Facility Wide applicable requirements are listed in Section 2: Number. 20.

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 G - Air Pollution Control Device Form

Control device ID number: 001 Kiln SO2 Control	List all emission units associated with this control device. Rotary Lime Kiln
Manufacturer:	Model number:
Installation date: 01/01/1966	

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) <u>Inherently scrubs SO2</u>
<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
SO ₂	100%	97%
		Process inherently scrubs SO ₂
		By lime absorption

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

Inlet parameters
 Average – 33,5001 ft³/min, Temp – 400°F
 Maximum – 60,000 ft³/min, Temp – 550°F

Outlet parameters
 Average – 33,5001 ft³/min, Temp – 400°F
 Maximum – 60,000 ft³/min, Temp – 550°F

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.

N/A

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 001 Kiln Venturi Scrubber	List all emission units associated with this control device. Rotary Lime Kiln
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Manufacturer: AirPol	Model number:	Installation date: 01/01/1997
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Type of Air Pollution Control Device:

<input type="checkbox"/> Baghouse/Fabric Filter	<input checked="" 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
particulate	100%	99.88%
SO ₂	100%	95.0% *
		Process inherently scrubs SO ₂
lead compounds	100%	99.88%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).
 Gas flow rate – 70,000ft³/min,
 Temp – 500°F,
 16PSIA
 Pressure Drop – 18-30 inches H₂O

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.**

Exempt Emission
 Emissions Limitations or Standards for - post 11/15/90 NSPS or NESHAP standards, since those standards have been and will be designed with monitoring that provides a reasonable assurance of compliance.

Describe the parameters monitored and/or methods used to indicate performance of this control device.
 WV Title V permit condition 4.1.13

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 2C Silo Bin Filter Vent	List all emission units associated with this control device. Particulate matter
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Manufacturer: Nol-Tec	Model number: 84HPRC32	Installation date: 09/1/2008
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Type of Air Pollution Control Device:

Baghouse/Fabric Filter
 Venturi Scrubber
 Multiclone
 Carbon Bed Adsorber
 Packed Tower Scrubber
 Single Cyclone
 Carbon Drum(s)
 Other Wet Scrubber
 Cyclone Bank
 Catalytic Incinerator
 Condenser
 Settling Chamber
 Thermal Incinerator
 Flare
 Other (describe)
 Wet Plate Electrostatic Precipitator
 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
TSP, PM ₁₀ , PM _{2.5}	100%	99.9%

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

Gas flow ratw
 Average – 1,100 ACFM Temp – ambient °F
Presure Drop
 High 6 in. H2O
 Low 0.5 in. H2O
Number of bags – 32(cartridges)

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.**

Exempt Emission
 This source does not have potential pre-control emissions that exceed or are equivalent to the major source threshold.

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

WV Title V permit condition 4.2.2 Requires a weekly Visual Emissions check.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 3C Densi-Filter	List all emission units associated with this control device. Particulate matter
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Manufacturer: Matrix	Model number: FDCGX26	Installation date: 09/1/2008
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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
TSP, PM ₁₀ , PM _{2.5}	100%	99.9%

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

Gas flow ratw
 Average – 200 ACFM Temp – ambient °F

Presure Drop
 High 8 in. H2O
 Low 1.0 in. H2O

Number of bags – 6(cartridges)

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.**

Exempt Emission
 This source does not have potential pre-control emissions that exceed or are equivalent to the major source threshold.

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

WV Title V permit condition 4.2.2 Requires a weekly Visual Emissions check.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 018 Chipper Cyclone	List all emission units associated with this control device. Particulate matter
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Manufacturer:	Model number:	Installation date: 01/01/1985
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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 checked="" 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
TSP, PM ₁₀ , PM _{2.5}	100%	95.0%

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

Inlet parameters
 Average – 39,760 ft³/min, Temp – 75°F
 Maximum – 75,000 ft³/min, Temp – 120°F

Outlet parameters
 Average – 39,760 ft³/min, Temp – 75°F
 Maximum – 75,000 ft³/min, Temp – 120°F

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.**

Exempt Emission
 Emissions 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 70.4(b)(12).

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

WV Title V permit condition 4.2.2 Requires a daily Visual Emissions check.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 023 Screening Fabric Filter	List all emission units associated with this control device. Particulate matter
Manufacturer:	Model number:
Installation date: 01/01/1966	

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) <u>Fabric filter: low temp</u>
<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
TSP, PM ₁₀ , PM _{2.5}	100%	99.0%

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

Inlet parameter
 Average – 40,000 ft³/min, Temp – 75°F
 Maximum – 80,000 ft³/min, Temp – 120°F

Outlet parameters
 Average – 40,000 ft³/min, Temp – 75°F
 Maximum – 80,000 ft³/min, Temp – 120°F

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.**

Exempt Emission
 Emissions 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 70.4(b)(12).

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

WV Title V permit condition 4.2.2 Requires a daily Visual Emissions check.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 024 Sawdust Building Cyclones	List all emission units associated with this control device. Particulate matter
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Manufacturer:	Model number:	Installation date: 01/01/1985
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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 checked="" 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
TSP, PM ₁₀ , PM _{2.5}	100%	80.0%

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

Inlet parameters
 Average – 3,938 ft³/min, Temp – 75°F
 Maximum – 8,436 ft³/min, Temp – 120°F

Outlet parameters
 Average – 3,938 ft³/min, Temp – 75°F
 Maximum – 8,436 ft³/min, Temp – 120°F

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.**

Exempt Emission
 Emissions 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 70.4(b)(12).

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

WV Title V permit condition 4.2.2 Requires a weekly Visual Emissions check.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 025 Sawdust Loading Cyclones	List all emission units associated with this control device. Particulate matter
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Manufacturer:	Model number:	Installation date: 01/01/1985
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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 checked="" 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
TSP, PM ₁₀ , PM _{2.5}	100%	80.0%

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

Inlet parameters
 Average – 2,039 ft³/min, Temp – 75°F
 Maximum – 8,436 ft³/min, Temp – 120°F

Outlet parameters
 Average – 2,039 ft³/min, Temp – 75°F
 Maximum – 8,436 ft³/min, Temp – 120°F

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.**

Exempt Emission
 Emissions 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 70.4(b)(12).

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

WV Title V permit condition 4.2.2 Requires a weekly Visual Emissions check.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 026 Rechipper Cyclone	List all emission units associated with this control device. Particulate matter
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Manufacturer:	Model number:	Installation date: 01/01/1966
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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 checked="" 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
TSP, PM ₁₀ , PM _{2.5}	100%	95.0%

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

Inlet parameters
 Average – 4,000 ft³/min, Temp – 75°F
 Maximum – 8,000 ft³/min, Temp – 120°F

Outlet parameters
 Average – 4,000 ft³/min, Temp – 75°F
 Maximum – 8,000 ft³/min, Temp – 120°F

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.**

Exempt Emission
 Emissions 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 70.4(b)(12).

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

WV Title V permit condition 4.2.2 Requires a weekly Visual Emissions check.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 031 No. 16 Slaker Scrubber	List all emission units associated with this control device. Particulate matter
Manufacturer:	Model number:
Installation date: 01/01/1966	

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 checked="" 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
TSP, PM ₁₀ , PM _{2.5}	100%	90.0%

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

Inlet parameter
 Average – 3,535 ft³/min, Temp – 285°F Scrubbing Agent flow rate: 20 gal/min -Average
 Maximum – 7,100 ft³/min, Temp – 345°F Scrubbing Agent flow rate: 30 gal/min - Maximum

Outlet parameters
 Average – 3,535 ft³/min, Temp – 161°F
 Maximum – 7,100 ft³/min, Temp – 210°F

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.**

Exempt Emission
 Emissions 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 70.4(b)(12).

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

WV Title V permit condition 4.2.2 Requires a weekly Visual Emissions check.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 036 No. 6 Slaker Scrubber	List all emission units associated with this control device. Particulate matter
Manufacturer:	Model number:
Installation date: 01/01/1966	

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 checked="" 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
TSP, PM ₁₀ , PM _{2.5}	100%	90.0%

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

Inlet parameter
 Average – 3,685 ft³/min, Temp – 315°F
 Maximum – 7,400 ft³/min, Temp – 380°F

Outlet parameters
 Average – 2,948 ft³/min, Temp – 160°F
 Maximum – 5,900 ft³/min, Temp – 210°F

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.**

Exempt Emission
 Emissions 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 70.4(b)(12).

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

WV Title V permit condition 4.2.2 Requires a weekly Visual Emissions check.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 045 No. 16 Slaker Feeder Enclosure	List all emission units associated with this control device. Particulate matter
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Manufacturer:	Model number:	Installation date: 01/01/1966
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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) <u>process Enclosed</u>
<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
TSP, PM ₁₀ , PM _{2.5}	100%	60.0%

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

Inlet parameter
 Average – 0.0 ft³/min, Temp – 68°F
 Maximum – 0.0 ft³/min, Temp – 210°F

Outlet parameters
 Average – 0.0 ft³/min, Temp – 68°F
 Maximum – 0.0 ft³/min, Temp – 210°F

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.**

Exempt Emission
 Emissions 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 70.4(b)(12).

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

WV Title V permit condition 4.2.2 Requires a weekly Visual Emissions check.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 046 No. 6 Slaker Feeder Enclosure	List all emission units associated with this control device. Particulate matter
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Manufacturer:	Model number:	Installation date: 01/01/1966
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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) <u>process Enclosed</u>
<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
TSP, PM ₁₀ , PM _{2.5}	100%	60.0%

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

Inlet parameter
 Average – 0.0 ft³/min, Temp – 68°F
 Maximum – 0.0 ft³/min, Temp – 210°F

Outlet parameters
 Average – 0.0 ft³/min, Temp – 68°F
 Maximum – 0.0 ft³/min, Temp – 210°F

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.**

Exempt Emission
 Emissions 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 70.4(b)(12).

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

WV Title V permit condition 4.2.2 Requires a weekly Visual Emissions check.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 047 Limestone Unloading Enclosure	List all emission units associated with this control device. Particulate matter
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Manufacturer:	Model number:	Installation date: 01/01/1966
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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) <u>process Enclosed</u>
<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
TSP, PM ₁₀ , PM _{2.5}	100%	95.0%

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

Inlet parameter
 Average – 0.0 ft³/min, Temp – 68°F
 Maximum – 0.0 ft³/min, Temp – 210°F

Outlet parameters
 Average – 0.0 ft³/min, Temp – 68°F
 Maximum – 0.0 ft³/min, Temp – 210°F

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.**

Exempt Emission
 Emissions 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 70.4(b)(12).

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

WV Title V permit condition 4.2.2 Requires a weekly Visual Emissions check.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 048 Pebble Lime Unloading Enclosure	List all emission units associated with this control device. Particulate matter
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Manufacturer:	Model number:	Installation date: 01/01/1966
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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) <u>process Enclosed</u>
<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
TSP, PM ₁₀ , PM _{2.5}	100%	95.0%

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

Inlet parameter
 Average – 0.0 ft³/min, Temp – 68°F
 Maximum – 0.0 ft³/min, Temp – 210°F

Outlet parameters
 Average – 0.0 ft³/min, Temp – 68°F
 Maximum – 0.0 ft³/min, Temp – 210°F

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.**

Exempt Emission
 Emissions 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 70.4(b)(12).

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

WV Title V permit condition 4.2.2 Requires a weekly Visual Emissions check.

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
018 Chipper	Wood Chipping Operation	PM	Cyclone	45CSR 7A 50lbs/hr	Visible emissions Daily check for visible emissions
<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: 018 Chipper	4b) Pollutant: PM	4c) ^a Indicator No. 1: Visible Emissions	4d) ^a Indicator No. 2:
5a) GENERAL CRITERIA Describe the <u>MONITORING APPROACH</u> used to measure the indicators:		Observation for Visible Emissions	
^b Establish the appropriate <u>INDICATOR RANGE</u> or the procedures for establishing the indicator range which provides a reasonable assurance of compliance:		Any visible emissions	
5b) PERFORMANCE CRITERIA Provide the <u>SPECIFICATIONS FOR OBTAINING REPRESENTATIVE DATA</u> , such as detector location, installation specifications, and minimum acceptable accuracy:		Operator will perform a daily visible inspection of the cyclone	
^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:		N/A	
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.):		Visible Emissions Training	
^d Provide the <u>MONITORING FREQUENCY</u> :		Once per 24-hour period	
Provide the <u>DATA COLLECTION PROCEDURES</u> that will be used:		Visible Emission Observation Forms	
Provide the <u>DATA AVERAGING PERIOD</u> for the purpose of determining whether an excursion or exceedance has occurred:		Daily	

^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:
018 Chipper

6b) Regulated Air Pollutant:
PM

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):

Visible Emissions are an indicator of particulate emissions.
If visible emissions are present, operations will be contacted to correct problem.

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:

Visible Emissions Observations are an appropriate indicator to a PM source

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
023 Screen House	Wood Chip Screening Operation	PM	Screening Fabric Filter	45CSR 7A 50lbs/hr	Visible emissions Daily check for visible emissions
<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: 023 Screen House	4b) Pollutant: PM	4c) ^a Indicator No. 1: Visible Emissions	4d) ^a Indicator No. 2:
5a) GENERAL CRITERIA Describe the <u>MONITORING APPROACH</u> used to measure the indicators:		Observation for Visible Emissions	
^b Establish the appropriate <u>INDICATOR RANGE</u> or the procedures for establishing the indicator range which provides a reasonable assurance of compliance:		Any visible emissions	
5b) PERFORMANCE CRITERIA Provide the <u>SPECIFICATIONS FOR OBTAINING REPRESENTATIVE DATA</u> , such as detector location, installation specifications, and minimum acceptable accuracy:		Operator will perform a daily visible inspection of the cyclone	
^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:		N/A	
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.):		Visible Emissions Training	
^d Provide the <u>MONITORING FREQUENCY</u> :		Once per 24-hour period	
Provide the <u>DATA COLLECTION PROCEDURES</u> that will be used:		Visible Emission Observation Forms	
Provide the <u>DATA AVERAGING PERIOD</u> for the purpose of determining whether an excursion or exceedance has occurred:		Daily	

^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:
023 Screen House

6b) Regulated Air Pollutant:
PM

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):

Visible Emissions are an indicator of particulate emissions.
If visible emissions are present, operations will be contacted to correct problem.

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:

Visible Emissions Observations are an appropriate indicator to a PM source