



MAJOR SOURCE OPERATING PERMIT

PERMITEE: **GEORGIA-PACIFIC BREWTON LLC**

FACILITY NAME: **GEORGIA-PACIFIC BREWTON LLC**

FACILITY NO.: 502-0001

LOCATION: BREWTON, AL

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§ 22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

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1-11 Batch Digesters (Hardwood, Softwood, and High Yield) Informational Summary

Description: 1-11 Batch Digesters (Hardwood, Softwood, High Yield)
Pulp Mill

Emission Unit No: X016

Emission Unit:	Installation Date:	Reconstruction/Modification Date:
Digester 1	2019	N/A
Digester 2	2009	N/A
Digester 3	2014	N/A
Digester 4	2005	N/A
Digester 5	2015	N/A
Digester 6	2012	N/A
Digester 7	2013	N/A
Digester 8	2015	N/A
Digester 9	2024	N/A
Digester 10	2022	N/A
Digester 11	1982	N/A
Blow Tank 1	1957	N/A
Blow Tank 2	1957	N/A
Blow Tank 3	1964	N/A
Blow Tank Accumulator	1993	N/A

Operating Capacity: 147,125 lb/hr ODTUBP

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60 Subpart BB
40 CFR Part 60 Subpart BBa
40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
BR-PUM1-FO16, BR-PUM2-FO16, and BR-PUM3-FO16	Digesters 2, 4, 6, and 11 (Hardwood, Softwood, and High Yield)	TRS	Incineration	Rule 335-3-10-.02 (28)
BR-PUM1-FO16, BR-PUM2-FO16, and BR-PUM3-FO16	Digesters 1, 3, 5, 7, 8, 9, and 10 (Hardwood, Softwood, and High Yield)	TRS	Incineration	Rule 335-3-10-.02 (28)(a)
BR-PUM1-FO16, BR-PUM2-FO16, and BR-PUM3-FO16	1-11 Batch Digesters (Hardwood, Softwood, and High Yield)	HAPs	Incineration	Rule 335-3-11-.06 (18)

1-11 Batch Digesters (Hardwood, Softwood, and High Yield)

Provisos

Federally Enforceable Provisos	Regulations
1. Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. Digesters 2, 4, 6, and 11 are subject to the requirements of the Federal New Source Performance Standards (NSPS) 40 CFR 60 – Subpart BB.	Rule 335-3-10-.02 (1) and (28)
3. Digesters 1, 3, 5, 7, 8, 9, and 10 are subject to the requirements of the Federal New Source Performance Standards (NSPS) 40 CFR 60 – Subpart BBa.	Rule 335-3-10-.02 (1) and (28)(a)
4. Digesters 1-11 are subject to federal National Emission Standards for Hazardous Pollutants (NESHAP) General Provisions as provided for in Table 1 of Subpart S (See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for additional requirements).	Rule 335-3-11-.06 (1) and (18)
2. Emission Standards	
1. For Digesters 2, 4, 6, and 11 all gases discharged that contain total reduced sulfur in excess of 5 parts per million corrected to 10 percent oxygen shall be incinerated in the No. 4 Recovery. The digester gases can also be combusted in the No. 3 Lime Kiln by subjecting the gases to a minimum temperature of 1200 degrees Fahrenheit for at least 0.5 seconds.	Rule 335-3-10-.02 (28)
2. For Digesters 1, 3, 5, 7, 8, 9, and 10 all gases discharged that contain total reduced sulfur in excess of 5 parts per million corrected to 10 percent oxygen shall be collected in an LVHC or HVLC closed vent system meeting the requirements of 63.450 and combusted in the No. 4 Recovery. The digester gases can also be combusted in the No. 3 Lime Kiln by subjecting the gases to a minimum temperature of 1200 degrees Fahrenheit for at least 0.5 seconds.	Rule 335-3-10-.02 (28)(a)
3. For Digesters 1-11 see “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed-Vent Systems” for additional requirements.	Rule 335-3-11-.06 (18)
3. Compliance and Performance Test Methods and Procedures	
1. For Digesters 1-11 see “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed-Vent Systems” for additional requirements.	Rule 335-3-11-.06 (18)
4. Emission Monitoring	
1. For Digesters 1-11 see “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed-Vent Systems” for additional requirements.	Rule 335-3-11-.06 (18)
5. Recordkeeping and Reporting Requirements	
1. For Digesters 1-11 see “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed-Vent Systems” for additional requirements.	Rule 335-3-11-.06 (18)

No. 4 Multiple Effect Evaporator System Informational Summary

Description: No. 4 Multiple Effect Evaporator System
Pulp Mill

Emission Unit No: X045

Installation Date: 2016

Reconstruction / Modification date:

Operating Capacity: 225,000 lb/hr BLS

Operating Schedule: 8760 hours/year.

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60 Subpart BBa

40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
X045	No. 4 Multiple Effect Evaporator System	Total Reduced Sulfur	Incineration	Rule 335-3-10-.02 (28)(a)
X045	No. 4 Multiple Effect Evaporator System	HAPs	Incineration	Rule 335-3-11-.06 (18)

No. 4 Multiple Effect Evaporator System Provisos

Federally Enforceable Provisos	Regulations
1. Applicability - This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, “Major Source Operating Permits”. - This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and Subpart S (See “Provisos for Pulping System Processes”, “Process Condensates” and “Enclosures and Closed Vent Systems” for additional requirements). - The No. 4 Multiple Effect Evaporator System is subject to Federal New Source Performance Standards Subpart BBa and 40 CFR 60 Subpart A, General Provisions. 2. Emission Standards - All gases discharged that contain total reduced sulfur in excess of 5 parts per million corrected to 10 percent oxygen shall be collected in an LVHC closed vent system meeting the requirements of 63.450 and combusted in the No. 4 Recovery. The LVHC gases can also be combusted in the No. 3 Lime Kiln by subjecting the gases to a minimum temperature of 1200 degrees Fahrenheit for at least 0.5 seconds. - See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for additional requirements. 3. Compliance and Performance Test Methods and Procedures - See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for additional requirements. 4. Emission Monitoring - For TRS periodic monitoring at least once per day mill personnel shall determine if the gases are being incinerated as required and if gases are not being incinerated, investigate and take corrective action within 24 hours. - See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for additional requirements. 5. Recordkeeping and Reporting Requirements - Once per day records of whether or not TRS gases are being incinerated shall be made and maintained on file available for inspection for a period of five years. - See “Provisos for Pulping System Processes”, “Process Condensates”, and “Enclosures and Closed Vent Systems” for additional requirements.	Rule 335-3-16-.03 Rule 335-3-11-.06 (1) and (18) Rule 335-3-10-.02 (1) and (28)(a) Rule 335-3-10-.02 (28)(a) Rule 335-3-11-.06 (18) Rule 335-3-11-.06 (18) Rule 335-3-16-.05 Rule 335-3-11-.06 (18) Rule 335-3-16-.05 Rule 335-3-11-.06 (18)

Tall Oil Plant Informational Summary

Description: Tall Oil Plant

Emission Unit No: X050

Installation Date: 1957 **Reconstruction/Modification Date:** 2017

Operating Capacity: 10,000 lb/hr

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
S12TOS	Tall Oil Plant (including: tall oil acidulator and tall oil batch neutralization tank)	TRS	≤ 3.68 lbs/hr; ≤ 16.14 tpy	Rule 335-3-14-.04
S12TOS	Tall Oil Plant (including: tall oil acidulator and tall oil batch neutralization tank)	H ₂ S	≤ 3.3 lbs/hr; ≤ 9.67 tpy	Rule 335-3-16-.05

Tall Oil Plant Provisos

Federally Enforceable Provisos	Regulations
1. Applicability	
1. This source is subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-14-.04 prevention of significant deterioration synthetic minor limit for total reduced sulfur emissions.	Rule 335-3-14-.04
2. Emission Standards	
1. Emissions from the tall oil acidulator and tall oil neutralizing tank must be vented to the scrubber.	Rule 335-3-16-.05
2. Hydrogen sulfide emissions shall not exceed 3.3 pounds per hour and 9.67 tons per year.	Rule 335-3-16-.05
3. Total reduced sulfur emissions shall not exceed 3.68 pounds per hour and 16.14 tons per year.	Rule 335-3-14-.04
4. For total reduced sulfur emissions, production from the Tall Oil Plant is limited to no more than 25,000 tons of tall oil per year.	Rule 335-3-14-.04
3. Compliance and Performance Test Methods and Procedures	
1. Compliance with the hydrogen sulfide emission limit shall be determined in accordance with 40 CFR Part 60 Method 15, 16, 16A, 16B, or 16C.	Rule 335-3-16-.05
2. Compliance with the total reduced sulfur emission limit shall be determined in accordance with 40 CFR Part 60 Method 16, 16A, 16B or 16C.	Rule 335-3-16-.05
4. Emission Monitoring	
1. A continuous monitoring system for the measurement of recirculation pH and scrubber recirculation flow rate shall be installed, operated and maintained based on the average values (averaged over a batch cycle) determined during the initial performance test or any subsequent tests.	Rule 335-3-16-.05
2. For hydrogen sulfide and total reduced sulfur periodic monitoring, if any scrubber recirculation flow rate or pH value (averaged over a batch cycle) is less than 90 percent of its respective average value recorded at the time of a required periodic test that showed compliance or a test approved by the Department that showed compliance, the cause is to be investigated and appropriate corrective action is to be taken within twenty-four hours.	Rule 335-3-16-.05
3. A hydrogen sulfide performance test shall be performed at least once every five years.	Rule 335-3-16-.05
4. A total reduced sulfur performance test shall be performed at least once every five years.	Rule 335-3-16-.05
5. Recordkeeping and Reporting Requirements	
1. Records of all batch cycle averages for wet scrubber recirculation flow rates and pH shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05

**Tall Oil Plant
Provisos**

Federally Enforceable Provisos	Regulations
2. Records of all monthly production rates, in tons of tall oil, shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
3. A hydrogen sulfide emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05
4. A total reduced sulfur emission test report shall be submitted to the Department at least once every five years.	Rule 335-3-16-.05

No. 3 Lime Kiln Informational Summary

Description: No. 3 Lime Kiln
Recausticizing Area

Emission Unit No: X046

Installation Date: 2023 **Reconstruction/Modification Date:** N/A

Operating Capacity: 42,083 lb/hr CaO

Operating Schedule: 8760 hours/year

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60 Subpart BBa

40 CFR Part 63 Subpart MM

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
LK3	No. 3 Lime Kiln	PM	≤ 1.0 lb/ADTUBP	Rule 335-3-4-.07 (2)(c)
LK3	No. 3 Lime Kiln	TRS	≤ 8 ppmv at 10% O ₂	Rule 335-3-10-.02 (28)(a)
LK3	No. 3 Lime Kiln	PM	≤ 0.010 gr/dscf at 8% O ₂	Rule 335-3-10-.02 (28)(a)
LK3	No. 3 Lime Kiln	Opacity	$\leq 20\%$ for $< 1\%$ of the operating time within any semiannual period.	Rule 335-3-10-.02 (28)(a)
LK3	No. 3 Lime Kiln	Opacity	$\leq 20\%$ for $< 3\%$ of the operating time within any semiannual period.	Rule 335-3-11-.06 (38)
LK3	No. 3 Lime Kiln	NO _x	≤ 33.35 lb/hr and 146.10 tpy	Rule 335-3-14-.04
LK3	No. 3 Lime Kiln	HAPs	PM as a surrogate ≤ 0.010 gr/dscf at 10% O ₂	Rule 335-3-11-.06 (38)
LK3	No. 3 Lime Kiln	HAPs	PM as a surrogate ≤ 0.010 gr/dscf at 10% O ₂	Rule 335-3-11-.06 (38)

Permitted Fuels

Fuel	Max % Sulfur	Max % Ash
Natural Gas		

No. 3 Lime Kiln Provisos

Federally Enforceable Provisos	Regulations
1. Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the requirements of ADEM Admin. Code 335-3-4-.07 (2)(c) particulate matter from kraft pulp mill lime kilns.	Rule 335-3-4-.07 (2)(c)
3. This source is subject to the requirements of the Federal New Source Performance Standards (NSPS) 40 CFR 60 – Subpart BBa.	Rule 335-3-10-.02 (1) and (28)(a)
4. This source is subject to the requirements of National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart and 40 CFR Part 63 Subpart MM as referenced in ADEM Admin. Code 335-3-11-.06 (38).	Rule 335-3-11-.06 (1) and (38)
5. This source is subject to the applicable requirements of ADEM Admin. Code 335-3-14-.04 prevention of significant deterioration synthetic minor limit for nitrogen oxides.	Rule 335-3-14-.04
2. Emission Standards	
1. Particulate matter emissions shall not exceed 1.0 pounds per air-dried ton of pulp.	Rule 335-3-4-.07 (2)(c)
2. No gases that contain total reduced sulfur in excess of 8 parts per million on a dry basis corrected to 10% oxygen shall be discharged to the atmosphere.	Rule 335-3-10-.02 (28)(a)
3. Pursuant to 40 CFR Part 60, Subpart BBa, this unit's particulate matter emissions shall not exceed 0.010 gr/dscf corrected to 10% oxygen.	Rule 335-3-10-.02 (28)(a)
4. Pursuant to 40 CFR Part 60, Subpart BBa, this unit's opacity shall not exceed 20% for 1% or more of the operating time within any quarterly period.	Rule 335-3-10-.02 (28)(a)
5. Pursuant to 40 CFR Part 63, Subpart MM, this unit's particulate matter emissions, as a surrogate for HAPs, shall not exceed 0.010 gr/dscf corrected to 10% oxygen.	Rule 335-3-11-.06 (38)
6. Pursuant to 40 CFR Part 63, Subpart MM, this unit's opacity shall not exceed 20% for 3% or more of the operating time within any semiannual period.	Rule 335-3-11-.06 (38)
7. Nitrogen oxides emissions from this unit shall not exceed 33.35 pounds per hour and/or 146.10 tons per year.	Rule 335-3-14-.04
8. This unit shall only fire natural gas or rectified methanol. This unit may also combust LVHC NCG's.	Rule 335-3-16-.05
3. Compliance and Performance Test Methods and Procedures	
1. Compliance with the particulate matter emission limit shall be determined in accordance with the 40 CFR Part 60 Method 5.	Rule 335-3-10-.02 (28)(a) Rule 335-3-11-.06 (38)
2. Compliance with the opacity limit shall be determined in accordance with the 40 CFR 60 Method 9 or the continuous opacity monitoring system.	Rule 335-3-10-.02 (28)(a)
3. Compliance with the total reduced sulfur emission limit shall be determined in accordance with the continuous emission monitoring system or 40 CFR Part 60 Method 16, 16A, 16B, or 16C.	Rule 335-3-10-.02 (28)(a)

No. 3 Lime Kiln Provisos

Federally Enforceable Provisos	Regulations
4. Compliance with the nitrogen oxide emission limit shall be determined in accordance with 40 CFR Part 60 Method 7 or 7E.	Rule 335-3-16-.05
4. Emission Monitoring	
1. A particulate matter emission test shall be performed at least once per year.	Rule 335-3-16-.05
2. A nitrogen oxide emission test shall be performed at least once every 5 years.	Rule 335-3-16-.05
3. For nitrogen oxide periodic monitoring, if any three-hour block average CaCO_3 rate is greater than 110 percent of its average value set by the respective required periodic test that showed compliance or a test approved by the Department that showed compliance, the feed rate is to be lowered until compliance is successfully demonstrated at the higher rate.	Rule 335-3-16-.05
4. A Continuous Opacity Monitoring System (COMs) which meets the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1 shall be installed, operated, calibrated, and maintained to record the opacity discharged from the unit.	Rule 335-3-10-.02 (28)(a) Rule 335-3-11-.06 (38)
5. Six-minute average opacities will be continuously recorded while in operation.	Rule 335-3-16-.05
6. A continuous TRS monitoring system must be installed, certified, and operated in accordance with Performance Specification (PS) 5 in appendix B to 40 CFR part 60 and a continuous oxygen monitoring system must be installed, certified, and operated in accordance with Performance Specification (PS) 3 in appendix B to 40 CFR part 60. These systems must be located downstream of the control device(s). The range of the continuous monitoring system must encompass all expected concentration values, including the zero and span values used for calibration. The spans of these continuous monitoring systems must be set:	Rule 335-3-10-.02 (28)(a)
a. At a TRS concentration of 30 ppm for the TRS continuous monitoring system.	
b. At 21-percent oxygen for the continuous oxygen monitoring system.	
7. Pursuant to 40 CFR Part 60, Subpart BBa the facility shall monitor and record the secondary voltage of each ESP field and secondary current of each ESP field. As an alternative the facility may monitor and record the total secondary power for each ESP field. Total secondary power may be calculated as the product of the secondary voltage and secondary current measurements for each ESP collection field. Per 40 CFR 60.284a(c)(4), site-specific operating limits are to be established as part of the initial performance test. Replacement operating limits may be established as part of subsequent compliance tests upon proper notification to the Department that these limits are being reestablished.	Rule 335-3-10-.02 (28)(a)

No. 3 Lime Kiln Provisos

Federally Enforceable Provisos	Regulations
8. Periods of excess emissions reported under §60.288a (a) would not be considered indicative of a violation when the criteria in paragraphs (a) and (b) of this section are met. a. The percent of the total number of possible contiguous periods of excess emissions in the semiannual reporting period does not exceed: i. One percent for TRS emissions from lime kilns, provided that the 12-hour average TRS concentration does not exceed 22 ppm corrected to 10-percent oxygen. ii. One percent for average opacities from lime kilns, provided that the ESP secondary voltage and secondary current (or total secondary power) averaged over the semiannual period remained above the minimum operating limits established during the performance test. b. It is determined that the affected facility, including air pollution control equipment, is maintained and operated in a manner which is consistent with good air pollution control practice for minimizing emissions during periods of excess emissions	Rule 335-3-10-.02 (28)(a)
9. Pursuant to §60.285a (b), an initial filterable particulate matter performance test must be conducted in accordance with §60.8 (a) and repeat filterable particulate matter performance testing must be completed at intervals no longer than 5 years following the previous performance test. Also, testing for condensable particulate matter is required at the time of initial and repeat performance testing for filterable particulate matter. Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.	Rule 335-3-10-.02 (28)(a)
10. Pursuant to §60.285a (d), an initial total reduced sulfur performance test must be conducted in accordance with §60.8 (a) and repeat total reduced sulfur performance testing must be completed at intervals no longer than 5 years following the previous performance test. Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.	Rule 335-3-10-.02 (28)(a)
11. In accordance with §63.864 (e)(1), the facility must maintain proper operation of the ESP's automatic voltage control (AVC).	Rule 335-3-11-.06 (38)
12. For compliance with 40 CFR Part 63, Subpart MM, a particulate matter performance test shall be performed initially and thereafter within 5 years following the previous performance test according to §63.865. Performance test data must be submitted through CEDRI within 60 days after the date of completing each performance test.	Rule 335-3-11-.06 (38)
13. For opacity periodic monitoring, if the average of any ten consecutive six-minute opacity averages exceeds 20 percent the cause is to be investigated and appropriate corrective action is to be taken.	Rule 335-3-11-.06 (38)
5. Recordkeeping and Reporting Requirements	
1. A particulate matter emission test report shall be submitted to the Department at least once per year.	Rule 335-3-16-.05

No. 3 Lime Kiln Provisos

Federally Enforceable Provisos	Regulations
2. A nitrogen oxide emission test report shall be submitted to the Department at least once every 5 years.	Rule 335-3-16-.05
3. Records of all three-hour block average CaCO ₃ rates shall be made and maintained on file available for inspection for at least five years.	Rule 335-3-16-.05
4. Records of all six-minute average opacities shall be made and maintained on file available for inspection for a period of five years.	Rule 335-3-16-.05
5. In accordance with §60.7 (c) and §60.7 (d), the facility must report semiannually periods of excess emissions as defined in §60.284a (d). Reports shall be submitted within 30 days following the end of the semiannual periods ending June 30 and December 31.	Rule 335-3-10-.02 (28)(a)
6. In accordance with §63.866 (b) and §63.864 (k)(1), the facility must maintain records of any occurrence when corrective action is required when the average of ten consecutive 6-minute averages result in a measurement greater than 20 percent opacity when lime mud is fed, and when a violation, per §63.864 (k)(2), is noted (when opacity is greater than 20 percent for 3 percent or more of the operating time when lime mud is fed within any semiannual period).	Rule 335-3-11-.06 (38)
7. Pursuant to 40 CFR Part 63, Subpart MM the facility must maintain records of the CaO production rates in units of Mg/d or ton/d.	Rule 335-3-11-.06 (38)
8. The facility must maintain records demonstrating compliance with the requirement in §63.864 (e)(1) to maintain proper operation of an ESP's AVC.	Rule 335-3-11-.06 (38)
9. In accordance with §63.866 (d), in the event this unit fails to meet and emission limit in §63.862 or any opacity operating limit in §63.864, record the number of failures. For each failure record the date, start time, duration of each failure, and: a. For any failure to meet an emission limit in §63.862, record an estimate of the quantity of each regulated pollutant emitted over the emission limit and a description of the method used to estimate the emissions. b. For each failure to meet an operating limit in §63.864, maintain sufficient information to estimate the quantity of each regulated pollutant emitted of the emission limit. This information must be sufficient to provide a reliable emissions estimate if requested by the Administrator. Record actions taken to minimize emissions in accordance with §63.860 (d) and any corrective actions taken to return the unit to its normal or usual manner of operation.	Rule 335-3-11-.06 (38)

No. 3 Lime Kiln Provisos

Federally Enforceable Provisos	Regulations
10. In accordance with 40 CFR Part 63, Subpart MM, the facility must submit a semiannual Excess Emissions Report and/or Summary Report containing the information required in §63.867 (c), including the number and duration of occurrences when the average of ten consecutive 6-minute averages result in a measurement greater than 20 percent opacity when lime mud is fed, and when the opacity is greater than 20 percent for 3 percent or more of the operating time within any semiannual period. If the total duration of excess emissions or process control system parameter exceedances for the reporting period is less than 1 percent of the total reporting period operating time, and CMS downtime is less than 5 percent of the total reporting period operating time, only the Summary Report is required to be submitted. If the total duration of excess emissions or process control system parameter exceedances for the reporting period is 1 percent or greater of the total reporting period operating time, or the total CMS downtime for the reporting period is 5 percent or greater of the total reporting period operating time, or any violations according to §63.864 (k)(2) occurred, information from both the Summary Report and the Excess Emissions Report must be submitted. Excess Emissions and Summary Reports must be reported electronically via CEDRI per §63.867 (d)(2) once the reporting form specific to 40 CFR Part 63, Subpart MM has been available in CEDRI for one year. Reports shall be submitted within 30 days following the end of the semiannual periods ending on June 30 and December 31.	Rule 335-3-11-.06 (38)

RICE Units Informational Summary

Description:

X051	Shipping Emergency Fire Pump Generator
X040-7	Tier 3 Emergency Fire Pump Engine
X052	No. 3 Lime Kiln Emergency Engine
X053	Warehouse Emergency Fire Water Pump
X054	IT Emergency Generator

Emission Unit:	Installation Date:	Reconstruction/Modification Date:
X051	2019	
X040-7	2016	
X052	2024	
X053	2025	
X054	2025	

Operating Capacity:	HP:	Type:	Fuel:
X051	215 hp	CI	Diesel
X040-7	175 hp	CI	Diesel
X052	543 hp	SI	Natural Gas
X053	311 hp	CI	Diesel
X054	247 hp	CI	Diesel

Operating Schedule:	Calendar Year Limit:	Non-Emergency Use:
X051	N/A	≤ 100/50 hours/year
X040-7	N/A	≤ 100/50 hours/year
X052	N/A	≤ 100/50 hours/year
X053	N/A	≤ 100/50 hours/year
X054	N/A	≤ 100/50 hours/year

These units contain equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60 Subpart IIII (X040-7, X051, X053, X054)

40 CFR Part 60 Subpart JJJJ (X052)

40 CFR Part 63 Subpart ZZZZ (All Units)

Pollutants Emitted

Emission Point	Point Description	Pollutant	Emission Limit	Standard
	All Units	Opacity	≤ 20% as determined by six-minute average, with one six-minute period up to 40% in any one-hour period.	Rule 335-3-4-.01 (1)
X040-7	Tier 3 Emergency Fire Pump Engine	HAPs	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; c. Inspect all hoses and belts every 500 hours of operation or	Rule 335-3-11-.06 (1) and (103)

			annually, whichever comes first, and replace as necessary.	
X040-7, X051, X053	Tier 3 Emergency Fire Pump Engine, Shipping Emergency Fire Pump Generator, Warehouse Emergency Fire Water Pump	HAPs	Comply with 40 CFR 60.4202(d) and 60.4205(c) Max Engine Power: $175 \leq \text{HP} < 300$ NMHC + NOx: 4.0 g/kW-hr (3.0 g/HP-hr) CO: 3.5 g/kW-hr (2.6 g/HP-hr) PM: 0.20 g/kW-hr (0.15 g/HP-hr)	Rule 335-3-10-.02 (87)
X052	No. 3 Lime Kiln Emergency Engine	HAPs	Comply with 40 CFR 60. Max Engine Power: $500 \leq \text{HP} < 1,350$ NOx: 2.0 g/HP-hr CO: 4.0 g/HP-hr VOC: 1.0 g/HP-hr	Rule 335-3-10-.02 (88)
X054	IT Emergency Generator	HAPs	NMHC + NOx: 4.0 g/kW-hr CO: 3.5 g/kW-hr PM: 0.20 g/kW-hr	Rule 335-3-10-.02 (87)
	All Units	HAPs	Per 40 CFR 60.4211(f), 60.4243(d), and 63.6640(f)(1), maintenance checks and readiness testing is limited to 100 hours per year and non-emergency use is limited to 50 hours per year, which count towards the 100 hour per year limit provided for maintenance and testing. There is no time limit on usage in emergency situations.	Rule 335-3-11-.06 (103) Rule 335-3-10-.02 (87) Rule 335-3-10-.02 (88)

Fuel Specifications	
Sulfur content of fuel oil	< 15ppm
Cetane Index	> 40 or Maximum aromatic content of 35% by volume

RICE Units Provisos

Federally Enforceable Provisos	Regulations
1. Applicability	
1. These sources are subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. These sources are subject to the requirements of ADEM Admin. Code 335-3-4-.01 for opacity.	Rule 335-3-4-.01
3. These sources are subject to the requirements of National Emission Standards for Hazardous Pollutants General Provisions as provided for in 40 CFR Part 63 Subpart ZZZZ as referenced in ADEM Admin. Code 335-3-11-.06 (103).	Rule 335-3-11-.06 (1) and (103)
4. Pursuant to 40 CFR 63.6590(c), Emission Units X040-7, X051, X053, X054 must meet the requirements of 40 CFR 63 Subpart ZZZZ by meeting the requirements of the Federal New Source Performance Standard as listed in 40 CFR Part 60, Subpart IIII.	Rule 335-3-10-.02 (1) and (87) Rule 335-3-11-.06 (103)
5. Pursuant to 40 CFR 63.6590(c), Emission Unit X052 must meet the requirements of 40 CFR 63 Subpart ZZZZ by meeting the requirements of the Federal New Source Performance Standard as listed in 40 CFR Part 60, Subpart JJJJ.	Rule 335-3-10-.02 (1) and (88) Rule 335-3-11-.06 (103)
2. Emission Standards	
1. For all units, opacity shall not exceed twenty percent as determined by six-minute average. During one six-minute period in any sixty-minute period, a person may discharge into the atmosphere from any source of emission, particulate of an opacity not greater than that designated as forty percent.	Rule 335-3-4-.01 (1)
2. All units shall be operated according to the requirements in 63.6640(f)(1)(i) through (iii).	Rule 335-3-11-.06 (103)
3. For all units, the facility must minimize engine time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. The emission standards in Table 2c of 40 CFR 63 Subpart ZZZZ apply to all times other than startup.	Rule 335-3-11-.06 (103)
4. Pursuant to 40 CFR 60.4207(b), the Permittee shall burn diesel fuel in Emission Units X040-7, X051, X053, and X054 that meet the following per-gallon standards of 40 CFR 1090.305:	Rule 335-3-10-.02 (87) 40 CFR 1090.305
a. Sulfur content shall not exceed 15 ppm	
b. Cetane index shall be a minimum of 40 or the aromatic content shall not exceed 35 volume percent	
5. Pursuant to 40 CFR 50.4202(d) and 60.4205(c), the permittee shall not cause or allow the emissions Emission Unit X040-7, X051, and X053 to exceed the applicable emission standards in Table 4 to Subpart IIII of 40 CFR 60, specifically:	Rule 335-3-10-.02 (87)
a. The sum of the emissions of non-methane hydrocarbons (NMHC) and nitrogen oxides (NO _x) shall not exceed 4.0 g/kW-hr (3.0 g/HP-hr)	
b. Carbon monoxide emissions shall not exceed 3.5 g/kW-hr (2.6 g/HP-hr)	
c. Particulate Matter emissions shall not exceed 0.20 g/kW-hr (0.15 g/HP-hr)	

RICE Units Provisos

Federally Enforceable Provisos	Regulations
6. Pursuant to 40 CFR 60.4233(e), the permittee shall not cause or allow the emissions from Emission Unit X052 to exceed applicable emission standards in Table 1 of NSPS Subpart JJJJ, specifically: a. The nitrogen oxides (NO_x) emission rate for this unit shall not exceed 2.0 g/HP-hr b. The carbon monoxide (CO) emission rate for this unit shall not exceed 4.0 g/HP-hr c. The volatile organic compounds (VOC) emission rate for this unit shall not exceed 1.0 g/HP-hr	Rule 335-3-10-.02 (88)
7. Pursuant to 40 CFR 60.4202(a)(2) and 60.4205(b), the permittee shall not cause or allow the emissions from Emission Unit X054 to exceed the applicable emission standards in Tier 3, specifically a. The sum of the emissions of non-methane hydrocarbons (NMHC) and nitrogen oxides (NO_x) shall not exceed 4.0 g/kW-hr b. Carbon monoxide emissions shall not exceed 3.5 g/kW-hr c. Particulate Matter emissions shall not exceed 0.20 g/kW-hr	Rule 335-3-10-.02 (87)
8. Pursuant to 40 CFR 60.4206, for Emission Units X040-7, X051, X053, and X054, the owner/operators must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4205 over the entire life of the engine.	Rule 335-3-10-.02 (87)
9. Pursuant to 40 CFR 60.4234, for Emission Units X052, the owner/operators must operate and maintain stationary SI ICE that achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine.	Rule 335-3-10-.02 (88)
3. Compliance and Performance Test Methods and Procedures	
1. All units and after-treatment control devices (if any) shall be operated and maintained according to the manufacturer's emission-related written instructions, or the facility develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.	Rule 335-3-11-.06 (103)
2. Pursuant to 40 CFR 60.4211(a), Emission Units X040-7, X051, X053, and X054, the facility shall: a. Operate and maintain the certified stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; b. Adjust engine settings according to and consistent with the manufacturer's instructions; c. Meet the requirements of 40 CFR 1068 as they apply.	Rule 335-3-10-.02 (87)
3. Pursuant to 40 CFR 60.4211(c), for Emission Units X040-7, X051, X053, and X054, the facility shall comply with the emission standards of Subpart IIII by purchasing an engine that is certified by the manufacturer to meet the requirements of 60.4205(e).	Rule 335-3-10-.02 (87)

RICE Units Provisos

Federally Enforceable Provisos	Regulations
4. Pursuant to 40 CFR 60.4211(f), for Emission Units X040-7, X051, X053, and X054, there is no time limit for use in emergency situations. Maintenance checks and readiness testing is limited to 100 hr/year. The unit may operate up to 50 hr/year in non-emergency situations, and these hours of use are counted toward the 100 hr/year non-emergency time limit.	Rule 335-3-10-.02 (87)
5. Pursuant to 40 CFR 60.4243(a)(1), for Emission Unit X052, the facility shall: a. Operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions; b. Adjust engine settings according to and consistent with the manufacturer's instructions; c. Meet the requirements of 40 CFR 1068 as they apply.	Rule 335-3-10-.02 (88)
6. Pursuant to 40 CFR 60.4243(b)(1), for Emission Unit X052, the facility shall comply with the emission standards of Subpart JJJJ by purchasing an engine that is certified by the manufacturer to meet the requirements of 60.4233(e).	Rule 335-3-10-.02 (88)
7. Pursuant to 40 CFR 60.4243(d), for Emission Unit X052, there is no time limit for use in emergency situations. Maintenance checks and readiness testing is limited to 100 hr/yr. The unit may operate up to 50 hr/year in non-emergency situations, and these hours of use are counted toward the 100 hr/year non-emergency time limit.	Rule 335-3-10-.02 (88)
4. Emission Monitoring	
1. The facility must install a non-resettable hour meter and monitor all units according to the requirements of 63.6625(f) and §63.6635.	Rule 335-3-11-.06 (103)
2. The facility shall monitor and collect data according to the requirements of §63.6635.	Rule 335-3-11-.06 (103)
3. Pursuant to 40 CFR 60.4209, the facility must install a non-resettable hour meter on Emission Units X040-7, X051, X053, and X054 and meet the monitoring requirements specified in 40 CFR 60.4211(f).	Rule 335-3-10-.02 (87)
4. Pursuant to 40 CFR 60.4237(a), the facility must install a non-resettable hour meter on Emission Unit X052 and meet the monitoring requirements specified in 40 CFR 60.4243(d).	Rule 335-3-10-.02 (88)
5. Recordkeeping and Reporting Requirements	
1. For all units, the facility shall keep records of the operation of the engine in emergency and non-emergency service, which is recorded through the non-resettable hour meter. The owner shall record the time of operation of the engine and the reason the engine was in operation during that time. These records shall be retained onsite for inspection purposes for a period of at least five years.	Rule 335-3-11-.06 (103)
2. The facility shall keep records in accordance with 40 CFR 63.6655 for all units.	Rule 335-3-11-.06 (103)
3. In accordance with §63.6640, the facility shall report, for all units, each instance in which it did not meet each operating limitation in Table 2c. These instances are deviations from the operating limitation and they must be reported according to the requirements in 63.6650(d) and (f).	Rule 335-3-11-.06 (103)

RICE Units Provisos

Federally Enforceable Provisos	Regulations
4. For all units, the facility shall submit semiannual and annual compliance reports. The compliance reports shall include the reporting requirements of 63.6650(c) and (d) if there is a deviation.	Rule 335-3-11-.06 (103)
5. If any of the existing units are reconstructed, the facility shall submit an Initial Notification.	Rule 335-3-11-.06 (103)
6. Emission Units X040-7, X051, X053, and X054 are only subject to the initial notification requirements of Subpart ZZZZ, and compliance with the proviso addressing Subpart IIII shall constitute compliance with this requirement.	Rule 335-3-10-.02 (87)
7. Pursuant to 40 CFR 60.4214(a)(or Emission Unit X040-7, X051, X053, and X054, the facility shall maintain and show records of the manufacturer's certification pursuant to requirements of 40 CFR 60.4202(d).	Rule 335-3-10-.02 (87)
8. To demonstrate compliance with the fuel limitations, the permittee shall only purchase fuels subject to meeting the fungible specifications for diesel fuel. Records of these fuel purchases shall be maintained in a permanent form suitable for inspection and shall be readily available for inspection upon request. These records shall be retained for a period of five years from the date of generation of each record.	Rule 335-3-10-.02 (87)
9. To demonstrate compliance with the operation limitations, the permittee shall maintain records of the date, time, duration, and purpose of operation each time the unit is operated. These records shall be maintained in a permanent form suitable for inspection and shall be readily available for inspection upon request. These records shall be retained for a period of five years from the date of generation of each record.	Rule 335-3-10-.02 (87)
	Rule 335-3-10-.02 (88)
10. For Emission Unit X052, facility shall keep records in accordance with 40 CFR 60.4245(a)(1)-(3), specifically: a. All notifications submitted to comply with this subpart and all documentation supporting any notification. b. All maintenance conducted on the engine. c. Documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR 1048, 1054, and 1060, as applicable.	Rule 335-3-10-.02 (88)

Pulping System Processes Informational Summary

Description: Pulping System Processes

Emission Unit No: S443

Installation Date: See individual sources

Reconstruction / Modification date: See individual sources

Operating Capacity: See individual sources

Operating Schedule: 8760 hours/year.

This unit contains equipment that is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 63 Subpart S

Pollutants Emitted

Emission Point #	Point Description	Pollutant	Emission Limit	Standard
S443	Pulping System Processes, Digesters 1-11, Multiple Effect Evaporators, Turpentine Recovery and Condensate Collection Systems.	HAPs	Equipment systems shall be enclosed and vented into a closed-vent system and routed to a lime kiln or recovery furnace by introducing the HAP emission stream with the primary fuel or into the flame zone.	Rule 335-3-11-.06 (18)
S443	Pulping System Processes	HAPs	The enclosures and closed-vent system shall meet the requirements specified in the Enclosures and Closed-Vent Systems Emission Standards Proviso 1(b)-(d).	Rule 335-3-11-.06 (18)
S443	Pulping System Processes	HAPs	As an alternative to meeting the Subpart S HVLC requirements, the Mill also has the option to pursue compliance using the Clean Condensate Alternative per 40 CFR Part §63.447.	Rule 335-3-11-.06 (18)

Pulping System Processes Provisos

Federally Enforceable Provisos	Regulations
1. Applicability 1. This source is subject to the applicable requirements of Rule 335-3-16-.03, "Major Source Operating Permits". 2. This source is subject to federal National Emission Standards for Hazardous Pollutants General Provisions as provided for in Table 1 of Subpart S and Subpart S. 2. Emission Standards 1. For Digesters 1-11, No. 4 Multiple Effect Evaporators, and Turpentine Recovery System per the requirements of 40 CFR Part 63 Subpart S, Low Volume High Concentration Gases shall be controlled by incineration in either No. 4 Recovery Furnace or the No. 3 Lime Kiln. Periods of excess emissions reported under 40 CFR Part §63.455 shall not be a violation of 40 CFR Part §63.443 (c) and (d) provided that the time of excess emissions divided by the total process operating time in a semi-annual reporting period does not exceed the following levels: a) One percent for control devices used to reduce the total HAP emissions from the LVHC system; and b) Four percent for control devices used to reduce the total HAP emissions from the HVLC system; and c) Four percent for control devices used to reduce the total HAP emissions from both the LVHC and HVLC systems. 2. Per the requirements of 40 CFR Part 63 Subpart S, High Volume Low Concentration Gases (HVLC) from the following equipment systems shall be controlled by incineration in the No. 4 Recovery Furnace or the No. 3 Lime Kiln; unless a clean condensate alternative is approved pursuant to 40 CFR 63.447: a) Each knotter or screen system with total HAP mass emission rates greater than or equal to the rates specified in bullets (2) (i)(A) or (2) (i)(B) of this section or the combined rate specified in bullet (2) (i)(C) of this section. i) Each knotter system with emissions of 0.05 kilograms or more of total HAP per megagram of ODP (0.1 pounds per ton). ii) Each screen system with emissions of 0.10 kilograms or more of total HAP per megagram of ODP (0.2 pounds per ton). iii) Each knotter and screen system with emissions of 0.15 kilograms or more of total HAP per megagram of ODP (0.3 pounds per ton). b) Each pulp washing system (i.e. Brown Stock Washers);	Rule 335-3-16-.03 Rule 335-3-11-.06 (1) and (18) Rule 335-3-11-.06 (18) Rule 335-3-11-.06 (18)

Federally Enforceable Provisos	Regulations
3. Emission Standards Continued c) Each decker system that: i) Uses any process water other than fresh water or paper machine white water; or ii) Uses any process water with a total HAP concentration greater than 400 parts per million by weight; and d) Each oxygen delignification system. 3. As an alternative to the requirements of proviso 2 of this section or of 40 CFR Part §63.443(a)(1)(ii) through (a)(1)(v) for the control of HAP emissions from pulping systems using the Kraft process, an owner or operator must demonstrate to the satisfaction of the Administrator, by meeting all the requirements of 40 CFR Part §63.447, that the total HAP emissions reductions achieved by a clean condensate alternative technology are equal to or greater than the total HAP emission reductions that would have been achieved by compliance with 40 CFR §63.443(a)(1)(ii) through (a)(1)(v). 4. Equipment systems listed in provisos 1 and 2 of this section shall be enclosed and vented into a closed-vent system and routed to a control device that meets the requirements specified in the following bullet. The enclosures and closed-vent system shall meet the requirements specified in the Enclosures and Closed-Vent Systems Emission Standards Proviso 1(b)-(d). 5. The control device used to reduce total HAP emissions from each equipment system listed in provisos 1 and 2 of this section shall either or both: a) Reduce total HAP emissions using a boiler, lime kiln or recovery furnace by introducing the HAP emission stream with the primary fuel or into the flame zone. b) Reduce total HAP emissions using a thermal oxidizer designed and operated at a minimum temperature of 1600 degrees Fahrenheit (three-hour rolling average) and a minimum residence time of 0.75 seconds. 4. Compliance and Performance Test Methods and Procedures 1. See Compliance and Performance Test Methods and Procedures provisos for “Enclosures and Closed-Vent Systems” for details. 5. Emission Monitoring 1. For the closed-vent system see the Emission Monitoring provisos for “Enclosures and Closed-Vent Systems”. 6. Recordkeeping and Reporting Requirements 1. For the HVLC sources, per the requirements of 40 CFR Part 63 Subpart S, the permittee shall meet the Recordkeeping and Reporting Requirements section of the “Enclosures and Closed-Vent Systems” provisos. 2. For Digesters 1-11, Multiple Effect Evaporator, Turpentine Recovery System and each applicable enclosure opening, closed-vent system, and closed collection system, per the requirements of 40 CFR §63.443, the permittee shall meet the Recordkeeping and Reporting Requirements section of the “Enclosures and Closed-Vent Systems” provisos.	Rule 335-3-11-.06 (18) Rule 335-3-11-.06 (18) 40 CFR Part 63.443 Rule 335-3-11-.06 (18) 40 CFR Part 63.443 Rule 335-3-11-.06 (18) 40 CFR Part 63.457 Rule 335-3-11-.06 (18) Rule 335-3-11-.06 (18) Rule 335-3-11-.06 (18)