

Part 70 Operating Permit Amendment

Permit Amendment No.: 2631-127-0003-V-04-6 **Effective Date:**

Facility Name: **Brunswick Cellulose, Inc.**
1400 West Ninth Street
Brunswick, Georgia 31521 (Glynn County)

Mailing Address: P.O. Box 1438
Brunswick, Georgia 31521

Parent/Holding Company: G-P Cellulose, LLC

Facility AIRS Number: 04-13-127-00003

In accordance with the provisions of the Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Georgia Rules for Air Quality Control, Chapter 391-3-1, adopted pursuant to and in effect under the Act, the Permittee described above is issued a construction permit for:

The installation of Lime Kiln #6 (Source Code: L560) and associated air pollution control equipment (Source Codes: LEP2 and LKS2); installation of Petroleum Coke Grinding Equipment (Source Code: PC01) and associated air pollution control equipment (Source Codes: BIN1-BIN3) for fuel for Lime Kiln #6; installation of 4 digesters (Source Codes: P230-P233); the replacement of 3 existing bleach plants with new Bleach Plant #4 (Source Code: BG06) and scrubber (Source Code: BPS4); installation of new Evaporator set #6 (Source Code: R495) to replace sets #3 and #4; modifications to Recovery Boilers #5 and #6 (Source Codes: R407 and R401); modifications to Nos. 3, 4, and 5 Paper Machines (Source Codes: MG03-MG05); the replacement of 2 existing washer lines with new Brownstock Washer System (Source Code: PG30); replacement of 1 existing slaker with new Lime Slaker #3 (Source Code: L561); replacement of Smelt Tank #6 Scrubber (Source Code: RSS6); and other modifications and upgrades as specified in Application No. 16576 to the facility in order to attain a future potential mill capacity of 3,000 ADTPD.

This Permit Amendment is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted and in effect under that Act, or any other condition of this Permit Amendment and Permit No. 2631-127-0003-V-04-0. Unless modified or revoked, this Permit Amendment expires upon issuance of the next Part 70 Permit for this source.

This Permit Amendment may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in Application No. 16576 dated January 18, 2006; any other applications upon which this Permit Amendment or Permit No. 2631-127-0003-V-04-0 are based; supporting data entered therein or attached thereto; or any subsequent submittal or supporting data; or for any alterations affecting the emissions from this source.

This Permit Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 39 pages, which pages are a part of this Permit Amendment, and which hereby become part of Permit No. 2631-127-0003-V-04-0.

Director
Environmental Protection Division

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PART 1.0 FACILITY DESCRIPTION**1.3 Process Description of Modification**

In Application No. 16576, the facility has proposed many projects in order to optimize the mill to support a future potential capacity of 3,000 air-dried tons of pulp per day. The facility will be installing many new pieces of equipment, removing other equipment from service, and modifying several existing systems at the mill.

- Lime Kiln #6 (Source Code: L560) – The new lime kiln will be rated at up to 850 tons calcium oxide per day. The facility will burn natural gas, tall oil, No. 6 fuel oil, and petroleum coke in the lime kiln. Air pollution control equipment is an electrostatic precipitator (Source Code: LEP2) to control PM emissions, followed by a scrubber (Source Code: LKS2) to control TRS emissions. The facility has requested the ability to burn petroleum coke in the new lime kiln. The Petroleum Coke Grinding Operations (Source Code: PC01) include two baghouse filters and one bin vent (Source Codes: BIN1, BIN2, and BIN3) will control PM emissions from the raw material storage bin, grinding operations, and pulverized storage silo, respectively.
- Bleach Plant #4 (Source Code: BG06) – This new bleach plant will replace existing Bleach Plants Nos. 1-3 (Group Source Code: BG01). A new scrubber (Source Code: BPS4) will control emissions from the bleach plant. Equipment BG03 and BG07 will also be removed.
- Evaporator Group (Equipment Group RG10) – New Evaporator Set #6 (Source Code: R495) will replace sets #3 and #4 (Source Codes: 405V through 413V, R442, and R443) and Recovery Boiler Concentrator #1 (Source Code: R483). The new evaporator set will have an integrated steam stripper (Source Code: R500) to assist the existing steam stripper. The pre-evaporator system will be modified with a new cooling tower bay and associated equipment. Off-gases are collected in the LVHC collection system and incinerated in the primary or backup incinerator.
- Brownstock Washer System (Source Code: PG30) – The new washer system will replace both existing washers systems (Source Codes: PG27 and PG28). Off-gases are collected in the HVLC collection system for destruction in Recovery Boilers #5 or #6.
- Batch Digesters (Equipment Group: PG01) – The facility will install up to 4 new digesters at 5,850 ft³ each (Source Codes: P230 through P233). Off-gases after the accumulator and turpentine system are collected in the LVHC collection system and incinerated in the primary or backup incinerator.
- Chip Thickness Screening System (Source Code: W090) – This system will allow the mill to screen out oversized and undersized chips by thickness to improve overall digester yields.
- Recovery Boilers #5 and #6 (Source Codes: R401 and R407) – The facility will modify these existing units and associated electrostatic precipitators in order to reach a future potential capacity of 4 and 6 million pounds of black liquor solids per day (BLS/day), respectively, on a continuous basis.

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- Smelt Tank #6 (Source Code: R408) – The facility will replace the existing scrubber (Source Code: RSS6) in order to comply with permit limits once the higher black liquor solids throughput is achieved.
- Lime Slakers (Source Code: LG09) – The facility will replace one slaker (Source Code: L514) with a new slaker (Source Code: L561) with a dedicated set of caustisizers (Source Code: L556 of Equipment Group LG08) and a dedicated scrubber (Source Code: LSS3).
- Nos. 3, 4, & 5 Paper Machines (Source Code: MG10) – The paper machines will be upgraded to support the facility mill capacity.
- The Wastewater Treatment System (Source code: OG01) will be modified.

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PART 3.0 REQUIREMENTS FOR EMISSION UNITS

Note: Except where an applicable requirement specifically states otherwise, the averaging times of any of the Emissions Limitations or Standards included in this permit are tied to or based on the run time(s) specified for the applicable reference test method(s) or procedures required for demonstrating compliance.

3.1.5 Modifications and Additions to Emission Units Table 3.1

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
New and Modified Equipment/Equipment Groups to be Installed as Part of the Project					
L560^	Lime Kiln #6	40 CFR 52.21 40 CFR 60 Subpart BB 40 CFR 63 Subpart MM 391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.27, 3.3.1, 3.3.26, 3.4.24 through 3.4.28, 4.1.3, 4.2.1, 4.2.2, 4.2.15 through 4.2.18, 5.2.1, 5.2.2, 5.2.3, 6.1.7, 6.2.23 through 6.2.27, 6.2.35	LEP2^ LKS2^	Lime Kiln #6 ESP Lime Kiln #6 Scrubber
BG06^	Bleach Plant #4	40 CFR 52.21 Georgia Air Toxics 40 CFR 63 Subpart S	3.2.12, 3.2.26, 3.3.14 through 3.3.16, 3.3.26, 4.2.23, 5.2.2, 6.1.7, 6.2.36	BPS4^	Bleach Plant #4 Scrubber
PG30^	Brownstock Washer System	40 CFR 52.21 40 CFR 60 Subpart BB 40 CFR 63 Subpart S	3.3.9, 3.3.25, 3.3.29, 3.3.30, 3.3.31, 3.3.38	R401 R407	Recovery Boiler #5 Recovery Boiler #6
PC01^	Petroleum Coke Grinding Operations	40 CFR 52.21 391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.25, 3.4.29, 3.4.30, 3.4.31, 4.2.26, 5.2.3, 5.2.7, 6.1.7, 6.2.36	BIN1^ BIN2^ BIN3^	Pet Coke Baghouse Grinding Baghouse Storage Silo Bin Vent
WY01	Woodyard Equipment (W001 - W086) - Chip Thickness Screening System - W090^	391-3-1-.02(2)(n)	3.4.32, 3.4.33, 6.2.37	None	None
R500^	Steam Stripper #2	40 CFR 60 Subpart BB 40 CFR 63 Subpart S	3.3.11 through 3.3.13, 3.3.18, 3.3.20, 3.3.22, 3.2.23, 3.3.25, 4.2.25, 5.2.3, 6.1.7, 6.2.14 through 6.2.18	R488 R480	Primary NCG Incinerator Backup NCG Incinerator
R401	Recovery Boiler #5	40 CFR 52.21 40 CFR 63 Subpart S 40 CFR 63 Subpart MM 391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g) 391-3-1-.02(2)(gg)	3.2.8, 3.2.21, 3.3.25, 3.3.26, 3.3.29, 3.3.30, 3.3.31, 3.4.14, 3.4.20, 3.4.23, 4.2.1, 4.2.2, 4.2.7 through 4.2.11, 4.2.19, 5.2.1, 5.2.2, 5.2.3, 6.1.7, 6.2.12, 6.2.22 through 6.2.27, 6.2.33, 6.2.34	REP5	Recovery Boiler #5 ESP
R407	Recovery Boiler #6	40 CFR 52.21 40 CFR 60 Subpart Db 40 CFR 60 Subpart BB 40 CFR 63 Subpart S 40 CFR 63 Subpart MM 391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.6, 3.2.7, 3.2.9, 3.3.25 through 3.3.31, 3.4.14, 3.4.23, 4.2.1, 4.2.2, 4.2.7 through 4.2.11, 4.2.20, 5.2.1, 5.2.2, 5.2.3, 5.3.2, 6.1.7, 6.2.11, 6.2.22 through 6.2.27, 6.2.33	REP6	Recovery Boiler #6 ESP

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Permit No.: 2631-127-0003-V-04-6

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
R408	Smelt Tank #6	40 CFR 52.21 40 CFR 60 Subpart BB 40 CFR 63 Subpart MM 391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(gg)	3.2.10, 3.3.25, 3.3.26, 3.4.15, 3.4.16, 4.2.1, 4.2.2, 4.2.7 through 4.2.10, 4.2.24, 5.2.2, 5.2.3, 6.1.7, 6.2.22 through 6.2.27	RSS6 [^]	#6 Smelt Tank Scrubber
LG09	East and West Lime Slakers (L511 and L561 [^])	40 CFR 52.21 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.22, 3.4.18, 3.4.19, 4.2.21, 5.2.3, 6.1.7, 6.2.36	LSS3 [^]	Lime Slaker #3 Scrubber
RG10	Evaporator Group (Source Codes 401V – 404V, 414V-417V, 427V, 428V, R438, R444, R495 [^])	40 CFR 52.21 40 CFR 63 Subpart S 391-3-1-.02(2)(gg) 40 CFR 60 Subpart BB (R438 and R495)	3.3.11 through 3.3.13, 3.3.17 through 3.3.20, 3.3.25, 3.4.17	R488 R480	Primary NCG Incinerator Backup NCG Incinerator
R488	Primary NCG Incinerator & Scrubber	40 CFR 52.21 40 CFR 60 Subpart BB 40 CFR 63 Subpart S 391-3-1-.02(2)(b) 391-3-1-.02(2)(gg)	3.2.13, 3.2.16, 3.3.8, 3.3.13, 3.3.25, 3.3.27, 3.4.9, 3.4.12, 3.4.13, 3.4.17, 4.2.1, 4.2.2, 4.2.6, 4.2.22, 5.2.2, 5.2.9 through 5.2.11, 5.3.1, 6.1.7, 6.2.13 through 6.2.18	RIS2	Primary NCG Incinerator Scrubber
R480	Backup NCG Incinerator & Scrubber	40 CFR 52.21 40 CFR 60 Subpart BB 40 CFR 63 Subpart S 391-3-1-.02(2)(b)	3.2.14, 3.2.15, 3.2.16, 3.3.25, 3.4.10, 3.4.11, 3.4.13, 3.4.17, 4.2.1, 4.2.2, 4.2.22, 5.2.2, 5.2.9, 5.2.12, 5.3.1, 5.3.2, 6.1.7, 6.2.13 through 6.2.18, 6.2.21	RIS1	Backup NCG Incinerator Scrubber
PG01	Batch Digesters (1-23) (P101-108, P141-151, P230-P233 [^])	40 CFR 52.21 40 CFR 63 Subpart S 391-3-1-.02(2)(gg) 40 CFR 60 Subpart BB (P150, P151, and P230-P233 only)	3.3.11 through 3.3.13, 3.3.17 through 3.3.20, 3.3.25, 3.3.38, 3.4.17	R488, R480	Primary NCG Incinerator Backup NCG Incinerator
LG08	Causticizers (L552-L555, L556 [^])	40 CFR 52.21	3.2.23, 6.2.36	None	None
MG10	Nos. 3, 4 & 5 Paper Machines & associated equipment (M601, M609, M625, M627 – M630, M632 – M635, M648 – M652, M660, M663, M668 – M671)	40 CFR 52.21	3.2.24, 6.2.36	None	None
U700	Power Boiler #4	40 CFR 52.21 40 CFR 61 Subpart E 40 CFR 63 Subpart DDDDD 391-3-1-.02(2)(b) 391-3-1-.02(2)(d) 391-3-1-.02(2)(g)	3.2.1, 3.2.2, 3.2.17, 3.2.18, 3.2.19, 3.2.20, 3.3.32, 3.3.33, 3.3.34, 3.3.35, 3.4.6, 3.4.7, 3.4.8, 3.4.20, 4.2.1, 4.2.2, 4.2.11, 4.2.12, 4.2.13, 5.2.1, 5.2.2, 5.2.3, 6.1.7, 6.2.3, 6.2.4, 6.2.12, 6.2.28, 6.2.29, 6.2.30	UEP4	Power Boiler #4 ESP

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Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
OG01	Wastewater Treatment System (O900, O908, O912, O913, O922, O923 & O924)	None*	None	None	None

* Generally applicable requirements contained in this permit may also apply to emission units listed above.

^ Indicates new equipment associated with this project

Equipment/Equipment Groups To Eventually Be Removed as Part of the Mill Optimization Project				
ID No.	Description	Applicable Requirements	APCD ID No.	Description
BG01	No. 1-3 Bleach Plants (B200-B202, B205-B207, B210-B215, B217-B219, B221-B227, B229-B231, B233-B236)	40 CFR 63 Subpart S	BPS1 BPS3	No. 1 Bleach Plant Scrubber No. 2 Bleach Plant Scrubber
PG27	Hardwood Washers (P115 – P121)	40 CFR 63 Subpart S		
PG28	Softwood Washers (P160 – P168)	40 CFR 63 Subpart S		
R483	Recovery Boiler Concentrator No. 1	40 CFR 60 Subpart BB 40 CFR 63 Subpart S 391-3-1-.02(2)(gg)		
405V-413V, R442, and R443	Evaporator Group	40 CFR 63 Subpart S 391-3-1-.02(2)(gg)		
BG03	Bleach Plant 2 nd Stage Washers (not routed to scrubber)	Georgia Air Toxics		
BG07	Bleach Plant 2 nd & 4 th Stage Towers	Georgia Air Toxics		
L514	West Lime Slaker	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)		

3.2 Equipment Emission Caps and Operating Limits

Power Boilers

3.2.3 The Permittee shall combust no more than 1,050,000 gallons of fuel oil in the No. 7 Power Boiler (Source Code: U707) during any twelve-consecutive month period.
[PSD Avoidance, 40 CFR 60 Subpart Db – Opacity Monitoring Avoidance]

3.2.4 The Permittee shall not discharge, or cause the discharge, into the atmosphere, from the No. 7 Power Boiler (Source Code: U707), nitrogen oxide (NO_x) emissions in excess of 39.1 tons during any twelve-consecutive month period.
[PSD Avoidance]

Recovery Boilers

3.2.6 All fuel oil burned in Recovery Boiler #6 (Source Code R407) shall meet the definition of “very low sulfur oil” in 40 CFR 60.41b.
[40 CFR 60 Subpart Db, 391-3-1-.02(2)(g) subsumed]

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- 3.2.8 The Permittee shall not discharge or cause the discharge into the atmosphere from Recovery Boiler #5 (Source Code: R401), any gases which:
- a. Contain total reduced sulfur (TRS) compounds in excess of the following:
 - i. 20 ppm by volume (corrected to 8% oxygen).
[391-3-1-.02(2)(gg)(i)(I)]
 - ii. 10 ppm by volume (corrected to 8% oxygen), after the modifications to Recovery Boiler #5 as described by Application No. 16576 dated January 18, 2006.
[Avoidance of 40 CFR 52.21; 391-3-1-.02(2)(gg)(i)(I) subsumed]
 - b. Deleted
 - c. Deleted
 - d. Contain particulate matter (PM) emissions in excess of the following:
 - i. 0.044 gr/dscf (corrected to 8% oxygen);
[40 CFR 63.862(a)(1)(i)(A)]
 - ii. 0.021 gr/dscf (corrected to 8% oxygen), after the modifications to Recovery Boiler #5 as described by Application No. 16576 dated January 18, 2006.
[40 CFR 52.21 BACT Limit; 40 CFR 63.862(a)(1)(i)(A) subsumed]
 - e. Contain nitrogen oxides (NO_x) emissions in excess of 100 ppm by volume (corrected to 8% oxygen), after the modifications to Recovery Boiler #5 as described by Application No. 16576 dated January 18, 2006.
[40 CFR 52.21 BACT Limit]
 - f. Contain carbon monoxide (CO) emissions in excess of 300 ppm by volume (corrected to 8% oxygen), after the modifications to Recovery Boiler #5 as described by Application No. 16576 dated January 18, 2006.
[40 CFR 52.21 BACT Limit]
 - g. Contain volatile organic compounds (VOC) emissions in excess of 0.04 lb/MMBtu, after the modifications to Recovery Boiler #5 as described by Application No. 16576 dated January 18, 2006.
[40 CFR 52.21 BACT Limit]
 - h. Contain hydrogen sulfide (H₂S) emissions in excess of 4 ppm by volume (corrected to 8% oxygen), after the modifications to Recovery Boiler #5 as described by Application No. 16576 dated January 18, 2006.
[40 CFR 52.21 BACT Limit]

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- 3.2.9 The Permittee shall not discharge or cause the discharge into the atmosphere from Recovery Boiler #6 (Source Code: R407), any gases which:
- a. Contain particulate matter (PM) emissions in excess of the following:
 - i. 0.044 gr/dscf (corrected to 8% oxygen);
[40 CFR 60.282(a)(1)(i) and 40 CFR 63.862(a)(1)(i)(A)]
 - ii. 0.021 gr/dscf (corrected to 8% oxygen), after the modifications to Recovery Boiler #6 as described by Application No. 16576 dated January 18, 2006.
[40 CFR 52.21 BACT Limit; 40 CFR 60.282(a)(1)(i) and 40 CFR 63.862(a)(1)(i)(A) subsumed]
 - c. Contain total reduced sulfur (TRS) compounds in excess of 5 ppm by volume (corrected to 8% oxygen).
[40 CFR 60.283(a)(2)]
 - f. Contain nitrogen oxides (NO_x) emissions in excess of the following:
[40 CFR 52.21 BACT Limit]
 - i. 180 ppm by volume (corrected to 3% oxygen)
 - ii. 100 ppm by volume (corrected to 8% oxygen), after the modifications to Recovery Boiler #6 as described by Application No. 16576 dated January 18, 2006.
 - g. Exhibit an opacity of 35% or greater when firing only Black Liquor Solids.
[40 CFR 60.282(a)(1)(ii)]
 - i. Contain carbon monoxide (CO) emissions in excess of 300 ppm by volume (corrected to 8% oxygen), after the modifications to Recovery Boiler #6 as described by Application No. 16576 dated January 18, 2006.
[40 CFR 52.21 BACT Limit]
 - j. Contain volatile organic compounds (VOC) emissions in excess of 0.04 lb/MMBtu, after the modifications to Recovery Boiler #6 as described by Application No. 16576 dated January 18, 2006.
[40 CFR 52.21 BACT Limit]
 - k. Contain hydrogen sulfide (H₂S) emissions in excess of 4 ppm by volume (corrected to 8% oxygen), after the modifications to Recovery Boiler #6 as described by Application No. 16576 dated January 18, 2006.
[40 CFR 52.21 BACT Limit]

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- 3.2.16 The Permittee shall not discharge or cause the discharge into the atmosphere from the Primary NCG Incinerator (Source Code: R488) and the Backup NCG Incinerator (Source Code: R480) any gases which contain nitrogen oxide (NO_x) emissions in excess of the following:
- a. 215.5 tons per 12-consecutive month period.
[40 CFR 52.21 Avoidance]
 - b. 0.456 lb/ADTP, after the modifications to the Primary and Backup NCG Incinerators as described by Application No. 16576 dated January 18, 2006. Emissions from the Backup NCG Incinerator shall not exceed 100 tons NO_x per 12-consecutive month period, after the modifications to the Backup NCG Incinerator as described by Application No. 16576 dated January 18, 2006.
[40 CFR 52.21 BACT Limit]
- 3.2.21 The Permittee shall not burn more than 2,100,000 gallons of fuel oil per consecutive twelve month period in Recovery Boiler #5 (Source Code: R401).
[Avoidance of 40 CFR 52.21]

Lime Slaker

- 3.2.22 The Permittee shall not discharge nor cause the discharge to the atmosphere from Lime Slaker #3, (Source Code: L561) any gases which contain 0.07 lb/ton CaO of particulate matter (PM).
[40 CFR 52.21 BACT Limit]

Causticizer Area

- 3.2.23 The Permittee shall use only fresh process water in the causticizing area, including the Reausticizer, Green Liquor Clarifier, and Lime Mud Washer (Source Codes: L556, L557, and L558) and shall use only freshwater in making up lime in the Lime Slaker (Source Code: L561) in order to minimize volatile organic compound (VOC) emissions.
[40 CFR 52.21 BACT Work Practice]

Paper Machines

- 3.2.24 The Permittee shall conduct the following in order to reduce emissions for the Paper Machines (Source Code: MG10):
[40 CFR 52.21 BACT Work Practice]
- a. A final rinse to the pulp at the bleach plant prior entering the Paper Machines with either freshwater or whitewater to reduce volatile organic compound (VOC) emissions.
 - b. Use no-VOC containing or negligible-VOC content additives in the Paper Machines.
 - c. If using a solid powered additive, it will be handled in an enclosure in order to minimize particulate matter (PM) emissions.

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Petroleum Coke Grinding Operations

- 3.2.25 The Permittee shall not discharge nor cause the discharge to the atmosphere from the Petroleum Coke Grinding Equipment (Source Code: PC01) any gases which contain the following:
- 0.01 gr/dscf of particulate matter (PM) from the Petroleum Coke Storage Silo.
[40 CFR 52.21 BACT Limit]
 - 0.1 lb/MMBtu of nitrogen oxides (NO_x) from the Petroleum Coke Grinder Duct Burner.
[40 CFR 52.21 BACT Limit]
 - 84 lb/mmscf of carbon monoxide (CO) from the Petroleum Coke Grinder Duct Burner.
[40 CFR 52.21 BACT Limit]
 - 5.5 lb/mmscf of volatile organic compounds (VOC) from the Petroleum Coke Grinder Duct Burner.
[40 CFR 52.21 BACT Limit]

Bleach Plant

3.2.12 **State Only Enforceable Condition.**

The Permittee shall not discharge or cause the discharge into the atmosphere from the combination of all of the sources listed below ("Source List") any gases which are in excess of that allowed by Georgia's Guideline for Ambient Impact Assessment of Toxic Air Pollutant Emissions, as demonstrated by air dispersion modeling ("Limits").
[391-3-1-.02(2)(a)(10)]

Source List

Source Code	Source	Control System	Control ID
BG01	Nos. 1, 2, and 3 Bleach Plants, #42 & 43 washer hoods	No. 1 Bleach Plant Scrubber & No. 2 Bleach Plant Scrubber	BPS1, BPS3
B250	SVP-LITE ClO ₂ generator	SVP Lite Tail Gas Scrubber	BPS2
BG03	#22 & 23 washer hoods	uncontrolled	--
BG06	Bleach Plant #4	Bleach Plant #4 Scrubber	BPS4

Limits

Source Code	Cl ₂ Limit (lb/hour)	ClO ₂ Limit (lb/hour)
BG01	6.53	6.19
B250	0.12	0.79
BG03	0.01	0.01
BC06	6.50	3.81

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- 3.2.26 The Permittee shall not discharge nor cause the discharge to the atmosphere from Bleach Plant #4 (Source Code: BG06) any gases which contain the following:
- a. 1.69 lb/UODTP (unbleached oven-dried tons pulp) of carbon monoxide (CO).
[40 CFR 52.21 BACT Limit]
 - b. 0.092 lb/ADTP of volatile organic compounds (VOC).
[40 CFR 52.21 BACT Limit]

Lime Kiln #6 (Source Code: L560)

- 3.2.27 The Permittee shall not discharge or cause the discharge into the atmosphere from Lime Kiln #6 any gases which contain emissions in excess of the following:
- a. 0.023 gm/dscm (0.010 gr/dscf) of particulate matter (PM) (corrected to 10 percent oxygen).
[40 CFR 52.21 BACT Limit and 40 CFR 63.862(b)(3); 40 CFR 60.282(a)(3) subsumed]
 - b. 8 ppm on a dry basis of total reduced sulfur (TRS) (corrected to 10 percent oxygen).
[40 CFR 60.283(a)(5)]
 - c. While firing petroleum coke,
 - i. 250 ppm of nitrogen oxides (NO_x) (corrected to 10 percent oxygen).
[40 CFR 52.21 BACT Limit]
 - ii. 145 pounds of nitrogen oxides (NO_x) per hour.
[40 CFR 52.21 BACT Limit]
 - d. 150 ppm of nitrogen oxides (NO_x) (corrected to 10 percent oxygen) while firing fuels other than petroleum coke.
[40 CFR 52.21 BACT Limit]
 - e. 1.12 pounds of carbon monoxide (CO) per ton of calcium oxide (CaO).
[40 CFR 52.21 BACT Limit]
 - f. 25 ppm of volatile organic compounds (VOC) (corrected to 10 percent oxygen).
[40 CFR 52.21 BACT Limit]
 - g. 8 ppm of hydrogen sulfide (H₂S) (corrected to 10 percent oxygen).
[40 CFR 52.21 BACT Limit]
 - h. 0.41 pounds of sulfur dioxide (SO₂) per ton of calcium oxide (CaO).
[Avoidance of 40 CFR 52.21]

3.3 Equipment Federal Rule Standards

General

- 3.3.1 The Permittee shall comply with all applicable provisions of 40 CFR Part 60 Subpart BB “Standards of Performance for Kraft Pulp Mills” for Lime Kilns #5 and #6 (Source Codes: L537 and L560).
[40 CFR 60 Subpart BB]
- 3.3.26 The Permittee shall be subject to all applicable provisions of Federal Standard 40 CFR 63 Subpart MM - “National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills” for Recovery Boiler #5, Recovery Boiler #6, Smelt Tank #5, Smelt Tank #6, Lime Kiln #5, and Lime Kiln #6 (Source Codes: R401, R407, R403, R408, L537, and L560).
[40 CFR 63.863(a)]
- 3.3.36 The Permittee shall be subject to all applicable provisions of 40 CFR Part 63 Subpart GGGGG - “National Emission Standards for Hazardous Air Pollutants: Site Remediation” on and after October 9, 2006.
[40 CFR 63 Subpart GGGGG]

Cluster Rule

- 3.3.11 The Permittee shall control the total HAP emissions from each component of the LVHC system (including source codes/groups R483, R484, RG10, PG25, R489, R490, PG31, PG01, and R495) using the Primary NCG Incinerator (Source Code R488) or the Backup NCG Incinerator (Source Code R480) by introducing the HAP emissions stream with the primary fuel or into the flame zone. LVHC system is defined as the collection of equipment including the digester, turpentine recovery, evaporator, steam stripper systems, and any other equipment serving the same function as those previously listed.
[40 CFR 63 Subpart S, 40 CFR 60.283(a)(1)(iii), 391-3-1-.02(2)(gg)]
- 3.3.30 The Permittee shall control the HAP emissions from each component of the HVLC systems (including Equipment Group Source Codes: PG27, PG28, PG35, and PG30) using Recovery Boilers #5 and #6 (Source Codes: R401 and R407). An HVLC system is defined as the collection of equipment including the pulp washing, knotter, screen, decker, and oxygen delignification systems, weak liquor storage tanks, and any other equipment serving the same function as those previously listed, as applicable by Conditions 3.3.10 and 3.3.38.
[40 CFR 63.443(a)(1)(ii) through (iv), 40 CFR 63.443(a)(2), 40 CFR 63.443(d)(4), and 40 CFR 63.440(d)(1)]
- 3.3.38 After the modifications to the following systems as described by Application No. 16576 dated January 18, 2006, the Permittee shall control the total HAP emissions from the following equipment systems:
[40 CFR 63.443(a)(2)]
- a. Each knotter system;

- b. Each screen system;
- c. Each decker system; and
- d. Each weak liquor storage tank.

3.4 Equipment SIP Rule Standards

Recovery Boilers (Source Codes: R401 and R407)

3.4.14 The Permittee shall not cause, let, permit, suffer, or allow the rate of emission from Recovery Boilers #5 and #6, particulate matter in total quantities equal to or exceeding the allowable rates calculated using the following equation:
[391-3-1-.02(2)(e)]

$$E = 4.1P^{0.67}; \text{ for process input weight rate up to and including 30 tons per hour.}$$

$$E = 55P^{0.11} - 40; \text{ for process input weight rate over 30 tons per hour.}$$

E = emission rate in pounds per hour
P = process input weight rate in tons per hour

3.4.23 The Permittee shall not cause, let, suffer, permit or allow emissions from Recovery Boilers #5 and #6 (when not firing Black Liquor Solids) the opacity of which is equal to or greater than forty (40) percent.
[391-3-1-.02(2)(b)1]

Lime Kiln #6 (Source Code: L560)

3.4.24 The Permittee shall not cause, let, suffer, permit or allow emissions from Lime Kiln #6, the opacity of which is equal to or greater than forty (40) percent.
[391-3-1-.02(2)(b)1]

3.4.25 The Permittee shall not cause, let, permit, suffer, or allow the rate of emission from Lime Kiln #6, particulate matter in total quantities equal to or exceeding the allowable rates calculated using the following equation:
[391-3-1-.02(2)(e)1(i)]

$$E = 55P^{0.11} - 40; \text{ for process input weight rate over 30 tons per hour.}$$

E = emission rate in pounds per hour
P = process input weight rate in tons per hour

- 3.4.26 The Permittee may not emit sulfur dioxide from Lime Kiln #6 equal to or exceeding the following:
[391-3-1-.02(2)(g)1]
- a. 0.8 pounds of sulfur dioxide per million BTUs of heat input derived from liquid fossil fuel;
 - b. 1.2 pounds of sulfur dioxide per million BTUs of heat input derived from solid fossil fuel;
 - c. when different fossil fuels are burned simultaneously in any combination, the applicable standard expressed as pounds of sulfur dioxide per million BTUs of heat input shall be determined by proration using the following formula:

$$a = \frac{y(0.80) + z(1.2)}{y + z}$$

where:

y = percent of total heat input derived from liquid fossil fuel;

z = percent of total heat input derived from solid fossil fuel;

a = the allowable emissions in pounds per million BTUs.

- 3.4.27 The Permittee shall not burn fuel containing more than 3 percent sulfur, by weight, in Lime Kiln #6, except as provided in Condition 3.4.28.
[391-3-1-.02(2)(g)(2)]
- 3.4.28 The Permittee may burn petroleum coke in the Lime Kiln #6 provided that the test required by Condition 4.2.19.d shows compliance with the sulfur dioxide limits contained in Condition 3.4.26 and Lime Kiln #6 Scrubber (Source Code: LKS2) is in operation at all times during which petroleum coke is burned.
[391-3-1-.02(2)(g)(3)]

Petroleum Coke Grinding Operations (Source Code: PC01)

- 3.4.29 The Permittee shall not cause, let, suffer, permit or allow emissions from any air contaminant source that is part of Petroleum Coke Grinding Equipment Group the opacity of which is equal to or greater than forty (40) percent.
[391-3-1-.02(2)(b)1]

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3.4.30 The Permittee shall not cause, let, permit, suffer, or allow the rate of emission from any air contaminant source that is part of Petroleum Coke Grinding Equipment Group, particulate matter in total quantities equal to or exceeding the allowable rates calculated using the following equations:

[391-3-1-.02(2)(e)1(i)]

$E = 4.1P^{0.67}$; for process input weight rate up to and including 30 tons per hour.

E = emission rate in pounds per hour

P = process input weight rate in tons per hour

3.4.31 The Permittee shall not burn fuel containing more than 2.5 percent sulfur, by weight, in Petroleum Coke Grinding Equipment Group Duct Burner.

[391-3-1-.02(2)(g)(2)]

Woodyard (Equipment Group WY01)

3.4.32 The Permittee shall take all reasonable precautions to prevent dust from the Woodyard Area from becoming airborne. Reasonable precautions that should be taken to prevent dust from becoming airborne include, but are not limited to, the following:

[391-3-1-.02(2)(n)1]

- a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land;
- b. Application of asphalt, water, or suitable chemicals on dirt roads, materials, stockpiles, and other surfaces that can give rise to airborne dusts;
- c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials. Adequate containment methods can be employed during sandblasting or other similar operations;
- d. Covering, at all times when in motion, open bodied trucks, transporting materials likely to give rise to airborne dusts; and
- e. The prompt removal of earth or other material from paved streets onto which earth or other material has been deposited.

3.4.33 The Permittee shall not cause, let, suffer, permit or allow emissions from the Woodyard Area the opacity of which is equal to or greater than twenty (20) percent.

[391-3-1-.02(2)(n)2]

PART 4.0 REQUIREMENTS FOR TESTING

4.1 General Testing Requirements

4.1.1 The Permittee shall cause to be conducted a performance test at any specified emission point when so directed by the Environmental Protection Division (“Division”). The test results shall be submitted to the Division within 45 days of the completion of the testing, unless otherwise approved by the Division. Any tests shall be performed and conducted using methods and procedures that have been previously specified or approved by the Division.

[391-3-1-.02(6)(b)1(i)]

4.1.2 The Permittee shall provide the Division thirty (30) days prior written notice of the date of any performance test(s), unless otherwise approved by the Division, to afford the Division the opportunity to witness and/or audit the test, and shall provide with the notification a test plan in accordance with Division guidelines.

[391-3-1-.02(3)(a)]

4.1.3 Performance and compliance tests shall be conducted and data reduced in accordance with applicable procedures and methods specified in the Division’s Procedures for Testing and Monitoring Sources of Air Pollutants. The methods for the determination of compliance with emission limits listed under Sections 3.2, 3.3, 3.4 and 3.5 which pertain to the emission units listed in Section 3.1 are as follows:

cc. For Recovery Boiler #5 (Source Code R401), Recovery Boiler #6 (Source Code R407), Lime Kiln #5 (Source Code L537), and Lime Kiln #6 (Source Code L560) the particulate matter concentration must be corrected to the appropriate oxygen concentration using the procedures of 40 CFR 63.865(b)(2).

[40 CFR 63.865(b)(2)]

Minor changes in methodology may be specified or approved by the Director or his designee when necessitated by process variables, changes in facility design, or improvement or corrections that, in his opinion, render those methods or procedures, or portions thereof, more reliable.

[391-3-1-.02(3)(a)]

4.2 Specific Testing Requirements

4.2.1 The Permittee shall conduct performance tests for the following specified equipment and pollutants:

Source Code	Equipment	Pollutants
L537	Lime Kiln #5	PM
U700	Power Boiler #4	PM
R401	Recovery Boiler #5	PM, VOC
R407	Recovery Boiler #6	PM, VOC, SO ₂
R488	Primary NCG Incinerator	PM, VOC, SAM, SO ₂ , NO _x
R480	Backup NCG Incinerator	SO ₂ , NO _x
R403	Smelt Tank #5	TRS, PM
R408	Smelt Tank #6	PM, TRS, SO ₂
L560	Lime Kiln #6	PM, VOC, SO ₂

4.2.2 The Permittee shall conduct performance tests as specified by the following table and criteria unless otherwise specified by the Division:

Equipment	Testing Frequency
Lime Kiln #5	PM – annually
Power Boiler #4	PM – annually
Recovery Boiler #5	PM, VOC – biennially
Recovery Boiler #6	PM, SO ₂ , VOC - biennially
Primary NCG Incinerator	PM, VOC, SAM, SO ₂ , NO _x – annually
Backup NCG Incinerator	SO ₂ , NO _x - annually
Smelt Tank #5	PM, TRS – biennially
Smelt Tank #6	SO ₂ , PM, TRS – biennially
Lime Kiln #6	PM, SO ₂ – annually VOC - biennially

- a. Where the results of a performance test which is required semi-annually or annually are less than or equal to 50 percent of the allowable limit, the Permittee may skip the next scheduled performance test;

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- b. Where the results of a performance test which is required annually are greater than 85 percent of the allowable limit, the Permittee shall begin testing on a semiannual basis with the next performance test due approximately six months following that test. If any subsequent test is less than or equal to 85 percent of the allowable limit, the Permittee shall resume annual testing. The provisions of 4.2.2.a do not apply until the results of two consecutive tests are less than or equal to 85 percent of the allowable.
- c. Where the results of a performance test which is required biennially are greater than 85 percent of the allowable limit, the Permittee shall begin testing on an annual basis with the next performance test due approximately twelve months following that test. If any subsequent test is less than or equal to 85 percent of the allowable limit, the Permittee shall resume biennial testing.
- d. Where required by Condition 6.1.7.c, data from these tests shall be used to establish the operational parameters. Data from a previously approved performance test which demonstrated compliance with the applicable emission limit may be used to establish the operational parameters in lieu of the most recent performance tests as long as that previous performance test is representative of current operations of the emission unit and was conducted during the 5 years prior to the most recent performance test or the life of this permit, whichever is shorter.
- e. The Permittee shall submit a list of all the current operational parameters established in accordance with this condition for the purpose of reporting under Condition 6.1.7.c with the quarterly report required by Condition 6.1.4.
[391-3-1-.02(2)(a)(10)]

4.2.11 Deleted

4.2.12 Deleted

4.2.13 Deleted

4.2.14 Deleted

Lime Kiln #6 (Source Code: L560)

- 4.2.15 The Permittee may establish expanded or replacement operating ranges for the monitoring parameters values listed in Conditions 5.2.2.f and 5.2.3.i during subsequent performance tests using the test methods listed in 40 CFR 63.865.
[40 CFR 63.864(j)(3)]
- 4.2.16 The Permittee shall continuously monitor each parameter as outlined in Condition 5.2.2.f and determine the arithmetic average value of each parameter during each performance test. Multiple performance tests may be conducted to establish a range of parameter values.
[40 CFR 63.864(j)(4)]

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- 4.2.17 Process data measured during the performance test must be used to determine the black liquor solids firing rate on a dry basis and the calcium oxide (CaO) production rate.
[40 CFR 63.865(b)(6)]

New/Modified Equipment Performance Testing

- 4.2.18 Within 60 days after achieving the maximum production rate at which Lime Kiln #6 will be operated, but not later than 180 days after initial startup of the lime kiln, the Permittee shall conduct a performance test for the presence of the following pollutants in order to demonstrate compliance with the emission limits contained in Condition 3.2.27. The Permittee shall also establish any operating parameter that is identified.
- a. Particulate matter (PM) emissions. Testing conducted for the establishment of parameters for 40 CFR 63 Subpart MM must meet the requirements of Conditions 4.2.15 through 4.2.17 and Conditions 6.2.23 through 6.2.27. The Permittee shall establish the minimum total secondary power to be reported as an exceedance in Condition 6.1.7.b.v(H).
[40 CFR 52.21 BACT Limit, 40 CFR 63.865, and 391-3-1-.02(6)(b)1]
 - b. Volatile organic compounds (VOC) emissions. The Permittee shall operate the carbon monoxide (CO) Continuous Emissions Monitoring System (CEMS) during this test to show compliance with both the VOC and CO limits. The Permittee shall use the results of this test to show compliance with the VOC emission limit in Condition 3.2.27.e.
[40 CFR 52.21 BACT Limit and 391-3-1-.02(6)(b)1]
 - c. Hydrogen sulfide (H₂S) emissions. The Permittee shall operate the total reduced sulfur (TRS) Continuous Emissions Monitoring System (CEMS) during this test to determine compliance with both the H₂S and TRS emission limits. The Permittee shall use the results of this test to show compliance with the H₂S emission limit in Condition 3.2.27.g.
[40 CFR 52.21 BACT Limit and 391-3-1-.02(6)(b)1]
 - d. Sulfur dioxide (SO₂) emissions while firing the maximum amount of petroleum coke. Testing conducted for the establishment of parameters for 40 CFR 63 Subpart MM must meet the requirements of Conditions 4.2.15 through 4.2.17 and Conditions 6.2.23 through 6.2.27. The Permittee shall also ensure that the operating parameters established during testing allow compliance with the SO₂ emission limits contained in Conditions 3.2.27.h and 3.4.26. The Permittee shall establish a minimum scrubbant recirculation rate, scrubbant supply pressure, and pH to be reported as exceedances and excursions in Conditions 6.1.7.b.v(I), 6.1.7.b.v(J), and 6.1.7.c.xi(A).
[Avoidance of 40 CFR 52.21, 391-3-1-.02(2)(g), and 391-3-1-.02(6)(b)1]
 - e. Nitrogen oxides (NO_x) while firing the maximum amount of petroleum coke in order to demonstrate compliance with the emission limit contained in Condition 3.2.27.c.ii.
[40 CFR 52.21 BACT Limit and 391-3-1-.02(6)(b)1]

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- 4.2.19 Within 60 days after achieving the maximum production rate at which Recovery Boiler #5 (Source Code: R401) will be operated after the modifications to Recovery Boiler #5 as described in Application No. 16576, but not later than 180 days after initial startup of the boiler after the modifications to Recovery Boiler #5 as described in Application No. 16576, the Permittee shall conduct a performance test for the presence of the following pollutants in order to demonstrate compliance with the emission limits contained in Condition 3.2.8. The Permittee shall also establish any operating parameter that is identified.
- a. Particulate matter (PM) emissions. The Permittee shall verify or reestablish the minimum total secondary power level for Recovery Boiler #5 ESP (Source Code: REP5) to be reported as an excursion in Condition 6.1.7.c.iv(C). Any testing conducted for the reestablishment of parameters for 40 CFR 63 Subpart MM must meet the requirements of Conditions 4.2.7 through 4.2.10 and Conditions 6.2.22 through 6.2.27.
[40 CFR 52.21 BACT Limit, 40 CFR 63.865, and 391-3-1-.02(6)(b)1]
 - b. Volatile organic compounds (VOC) emissions. The Permittee shall operate the carbon monoxide Continuous Emissions Monitoring System (CEMS) during this test to show compliance with both the volatile organic compounds and carbon monoxide limits. The Permittee shall use the results of this test to show compliance with the volatile organic compound emission limit in Condition 3.2.8.g.
[40 CFR 52.21 BACT Limit and 391-3-1-.02(6)(b)1]
 - c. Hydrogen sulfide (H₂S) and total reduced sulfur (TRS) emissions. The Permittee shall operate the total reduced sulfur Continuous Emissions Monitoring System (CEMS) during this test to determine a site-specific H₂S/TRS ratio in order to show compliance with the hydrogen sulfide emission limit in Condition 3.2.8.h.
[40 CFR 52.21 BACT Limit and 391-3-1-.02(6)(b)1]
- 4.2.20 Within 60 days after achieving the maximum production rate at which Recovery Boiler #6 (Source Code: R407) will be operated after the modifications to Recovery Boiler #6 as described in Application No. 16576, but not later than 180 days after initial startup of the boiler after the modifications to Recovery Boiler #6 as described in Application No. 16576, the Permittee shall conduct a performance test for the presence of the following pollutants in order to demonstrate compliance with the emission limits contained in Condition 3.2.9. The Permittee shall also establish any operating parameter that is identified.
- a. Particulate matter (PM) emissions. The Permittee shall verify or reestablish the minimum total secondary power level for Recovery Boiler #6 ESP (Source Code: REP6) to be reported as an excursion in Condition 6.1.7.c.iv(B). Any testing conducted for the reestablishment of parameters for 40 CFR 63 Subpart MM must meet the requirements of Conditions 4.2.7 through 4.2.10 and Conditions 6.2.22 through 6.2.27.
[40 CFR 52.21 BACT Limit, 40 CFR 63.865, and 391-3-1-.02(6)(b)1]

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- b. Volatile organic compounds (VOC) emissions. The Permittee shall operate the carbon monoxide Continuous Emissions Monitoring System (CEMS) during this test to show compliance with both the volatile organic compounds and carbon monoxide limits. The Permittee shall use the results of this test to show compliance with the volatile organic compound emission limit in Condition 3.2.9.j.
[40 CFR 52.21 BACT Limit and 391-3-1-.02(6)(b)1]
 - c. Hydrogen sulfide (H₂S) and total reduced sulfur (TRS) emissions. The Permittee shall operate the total reduced sulfur Continuous Emissions Monitoring System (CEMS) during this test to determine a site-specific H₂S/TRS ratio in order to show compliance with the hydrogen sulfide emission limit in Condition 3.2.8.k.
[40 CFR 52.21 BACT Limit and 391-3-1-.02(6)(b)1]
- 4.2.21 Within 60 days after achieving the maximum production rate at which Lime Slaker #3 (Source Code: L561) will be operated, but not later than 180 days after initial startup of the lime slaker, the Permittee shall conduct a performance test for the presence of particulate matter (PM) emissions in order to demonstrate compliance with the emission limit contained in Condition 3.2.22.a. The Permittee shall also establish a minimum scrubber flow rate for Lime Slaker #3 Scrubber (Source Code: LSS3) to be reported as an excursion in Condition 6.1.7.c.ix(A).
[40 CFR 52.21 BACT Limit and 391-3-1-.02(6)(b)1]
- 4.2.22 Within 60 days after achieving the maximum production rate at which the Primary and Backup Incinerators (Source Codes: R488 and R480) will be operated after the modifications to the Incinerators as described in Application No. 16576, but not later than 180 days after initial startup of the incinerators after the modifications to the Incinerators as described in Application No. 16576, the Permittee shall conduct a performance test for the presence of the following pollutants in order to demonstrate compliance with the emission limits contained in Condition 3.2.9. The Permittee shall also establish any operating parameter that is identified.
- a. Nitrogen oxides (NO_x) in order to demonstrate compliance with the emission limits contained in Condition 3.2.16. The Permittee shall establish the NO_x emission rate used to calculate NO_x emissions per Condition 6.1.7.d.iii(B) and (C).
[40 CFR 52.21 BACT Limit and 391-3-1-.02(6)(b)1]
 - b. The Permittee shall re-perform the initial performance test for the Primary NCG Thermal Oxidizer (Source Code: R488) to re-establish the minimum temperature required to meet the limitations in 40 CFR 63.443 and 40 CFR 63.446 and to be reported as an excess emission in Condition 6.1.7.a.iv(A).
[40 CFR 63.7 and 40 CFR 63.457]
 - c. Sulfur dioxide (SO₂) emissions while firing the maximum amount of LVHC gases. The Permittee shall verify or reestablish the operating parameters (pH and recirculation rates for the Primary and Backup Incinerator Scrubbers (Source Codes: RIS1 and RIS2) to be reported as excursions in Condition 6.1.7.c.vii(B) through 6.1.7.c.vii(E).
[40 CFR 63.7 and 40 CFR 63.453]

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- 4.2.23 Within 60 days after achieving the maximum production rate at which Bleach Plant #4 (Source Code: BG06) will be operated, but not later than 180 days after initial startup of the bleach plant, the Permittee shall conduct a performance test to determine compliance with the requirements of Conditions 3.2.12, the carbon monoxide (CO) limit in 3.2.26, and 3.3.15 and to establish a oxidation/reduction potential of the recirculation flow and liquid-to-air ratio rate for Bleach Plant #4 Scrubber (Source Code: BPS4) to be reported as excursions in Condition 6.1.7.c.vi(K) and 6.1.7.c.vi(L).
[40 CFR 52.21 BACT Limit, 40 CFR 63.453(n), and 391-3-1-.02(6)(b)1]
- 4.2.24 Within 60 days after achieving the maximum production rate at which Smelt Tank #6 (Source Code: R408) will be operated, but not later than 180 days after initial startup of the smelt tank, the Permittee shall conduct a performance test to determine compliance with the requirements of Condition 3.2.10 and to reestablish scrubbant supply pressure, scrubbant flow rate, and pH for Smelt Tank #6 Scrubber (Source Code: RSS6) to be reported as exceedances or excursions in Conditions 6.1.7.b.v(F), 6.1.7.b.v(G), or 6.1.7.c.v(D). Any testing conducted for the reestablishment of parameters for 40 CFR 63 Subpart MM must meet the requirements of Conditions 4.2.7 through 4.2.10 and Conditions 6.2.22 through 6.2.27.
[40 CFR 63.865 and 391-3-1-.02(6)(b)1]
- 4.2.25 Within 60 days after achieving the maximum production rate at which the new Steam Stripper #2 (Source Code: R500) will be operated, but not later than 180 days after initial startup of the new steam stripper, the Permittee shall conduct a performance test to establish a process wastewater column feed temperature and total steam-to-condensate ratio to be reported as excess emissions in Condition 6.1.7.a.iv(E) .
[40 CFR 63.453(g) and 391-3-1-.02(6)(b)1]
- 4.2.26 Within 60 days after achieving the maximum production rate at which Petroleum Coke Grinding Operations (Source Code: PC01) will be operated, but not later than 180 days after initial startup of the petroleum coke grinding operation, the Permittee shall conduct a performance test to determine compliance with the particulate matter (PM) requirements of Condition 3.2.25 and to establish pressure drops across baghouses (Source Codes: BIN1 and BIN2) to be reported as excursions in Condition 6.1.7.c.x(B).
[40 CFR 52.21 BACT Limit, 40 CFR 63.453(n), and 391-3-1-.02(6)(b)1]

PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection)**5.2 Specific Monitoring Requirements**

5.2.1 The Permittee shall install, calibrate, maintain, and operate a system to continuously monitor and record the indicated pollutants on the following equipment. Each system shall meet the applicable performance specification(s) of the Division's monitoring requirements. [391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

- c. Recovery Boiler #6 (Source Code: R407)
 - i. TRS and oxygen
 - ii. NO_x and CO after the modifications to Recovery Boiler #6 as described by Application No. 16576 dated January 18, 2006. [40 CFR 52.21 BACT]
- e. Recovery Boiler #5 (Source Code: R401)
 - i. TRS and oxygen
 - ii. NO_x and CO after the modifications to Recovery Boiler #5 as described by Application No. 16576 dated January 18, 2006. [40 CFR 52.21 BACT]
- f. NO_x and CO from Power Boiler #4 (Source Code: U700) [Avoidance of 40 CFR 52.21]
- g. TRS, NO_x, CO, and oxygen from Lime Kiln #6 (Source Code: L560). [40 CFR 52.21 and 40 CFR 60.284(a)(2)]

5.2.2 The Permittee shall install, calibrate, maintain, and operate a system to continuously monitor and record the indicated parameters on the following equipment. Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division's monitoring requirements. [391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

- f. Lime Kiln #6 (Source Code: L560)
 - i. Scrubbant Recirculation Rate (Flow rate) for the Lime Kiln #6 Scrubber (Source Code: LKS2) at least once every successive 15-minute period using the procedures in 40 CFR 63.8(c). The monitoring device used for continuous measurement of the scrubbing liquid flow rate must be certified by the manufacturer to be accurate within ± 5 percent of the design scrubbing liquid flow rate. [40 CFR 60 Subpart BB - alternative monitoring plan, 40 CFR 63.864(e)(10), and Avoidance of 40 CFR 52.21]

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- ii. Scrubbant Supply Pressure for the Lime Kiln #6 Scrubber (Source Code: LKS2) at least once every successive 15-minute period using the procedures in 40 CFR 63.8(c). The monitoring device used for the continuous measurement of the scrubbant supply pressure must be certified by the manufacturer to be accurate to within a gage pressure of ± 500 pascals (± 2 inches of water gage pressure). [40 CFR 60.284(b)(2)(ii), 40 CFR 63.864(e)(13), and Avoidance of 40 CFR 52.21]
 - iii. Secondary current and secondary voltage for each electrical isolatable section (bus section) of the electrostatic precipitator for Lime Kiln #6 (Source Code LEP2) to determine total secondary power at least once every successive 15-minute period using the procedures in 40 CFR 63.8(c). [40 CFR 60 Subpart BB, 40 CFR 63.864(e)(14)]
 - iv. pH of the recirculation flow for the Lime Kiln #6 Scrubber (Source Code: LKS2). [Avoidance of 40 CFR 52.21]
- 5.2.3 The Permittee shall install, calibrate, maintain, and operate monitoring devices for the measurement of the indicated parameters on the following equipment. Data shall be recorded at the frequency specified below. Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division's monitoring requirements. [391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- d. Recovery Boilers #5 and #6 (Source Codes: R401 and R407)
 - iii. Fuel oil usage in Recovery Boiler #5. Data shall be recorded monthly.
 - f. Bleach Plants (Source Codes: BG10 and BG06)
 - ix. Liquid-to-air ratio for Bleach Plant #4 Scrubber (Source Code: BPS4). Data shall be recorded once per hour.
 - x. Oxidation/reduction potential of the recirculation flow for Bleach Plant #4 Scrubber (Source Code: BPS4). Data shall be recorded once per hour.
 - i. Lime Kiln #6 (Source Code: L560)
 - i. Calcium oxide (CaO) production rate in tons/day or Mg/day from Lime Kiln #6. Data shall be recorded daily. [40 CFR 63.866(c)(2)]

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- j. Petroleum Coke Grinding Operations (Source Code: PC01)
 - i. Pressure drop across baghouses (Source Codes: BIN1 and BIN2). Data shall be recorded once per 8 hours of operation.
 - k. Lime Slaker #3 (Source Code: L561)
 - i. Scrubbant flow rate for Lime Slaker #3 Scrubber (Source Code: LSS3). Data shall be recorded once per 8 hours of operation.
 - l. Steam Stripper #2 (Source Code: R500)
 - i. Process Wastewater Feed Rate for Steam Stripper #2. Data shall be recorded once per hour.
 - ii. Steam Feed Rate for Steam Stripper #2. Data shall be recorded once per hour.
 - iii. Process Wastewater Column Feed Temperature for Steam Stripper #2. Data shall be recorded once per hour.
 - iv. Total steam-to-condensate ratio shall be determined and recorded from the Wastewater Feed Rate and Steam Feed Rate to Steam Stripper #2. Data shall be recorded once per hour.
- 5.2.7 The Permittee shall visually observe the opacity from the Petroleum Coke Grinding Operations (Source Code: PC01) once during the daylight shift for each day or portion of each day of operation of the grinding operations. The Permittee shall record any observable change in emissions and note the corrective action taken. A checklist or similar log may be used for this purpose.
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- 5.2.8 The following pollutant specific emission unit(s) (PSEU) are subject to the Compliance Assurance Monitoring (CAM) Rule in 40 CFR 64.

Emission Unit	Pollutant
Primary Incinerator (Source Code: R488)	SO ₂ and H ₂ SO ₄ mist
Backup Incinerator (Source Code: R480)	SO ₂

Permit conditions in this permit for the PSEU(s) listed above with regulatory citation 40 CFR 70.6(a)(3)(i) are included for the purpose of complying with 40 CFR 64. In addition, the Permittee shall meet the requirements, as applicable, of 40 CFR 64.7, 64.8, and 64.9.
[40 CFR 64]

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5.2.9 The Permittee shall comply with the performance criteria listed in the table below for the sulfur dioxide (SO₂) emissions from Primary Incinerator (Source Code: R488).
 [40 CFR 64.6(c)(1)(iii)]

Performance Criteria [64.4(a)(3)]	Indicator No. 1 Scrubbant pH	Indicator No. 2 Scrubbant Recirculation Flow Rate
A. Data Representativeness [64.3(b)(1)]	Place the pH sensor in a position that provides a representative measurement of scrubber effluent pH. Ensure the sample is properly mixed and representative of fluid being measured.	± 5 percent of the design scrubbant liquid flow rate.
B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]	N/A	N/A
C. QA/QC Practices and Criteria [64.3(b)(3)]	The pH meter calibration is checked weekly.	The Permittee is subject to the calibration, maintenance, and operation of the continuous monitoring system.
D. Monitoring Frequency [64.3(b)(4)]	Continuously (minimum of once per every 15 minutes)	Continuously (minimum of once per every 15 minutes)
Data Collection Procedures [64.3(b)(4)]	Continuous Monitoring System (CMS) to record pH every 15 minutes	Continuous Monitoring System (CMS) to record flow rate every 15 minutes
Averaging Period [64.3(b)(4)]	3-hour rolling average	3-hour rolling average

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5.2.10 The Permittee shall comply with the performance criteria listed in the table below for the sulfuric acid mist (H₂SO₄) emissions from Primary Incinerator (Source Code: R488).
 [40 CFR 64.6(c)(1)(iii)]

Performance Criteria [64.4(a)(3)]	Indicator No. 1 Scrubbant pH	Indicator No. 2 Scrubbant Recirculation Flow Rate
A. Data Representativeness [64.3(b)(1)]	Place the pH sensor in a position that provides a representative measurement of scrubber effluent pH. Ensure the sample is properly mixed and representative of fluid being measured.	± 5 percent of the design scrubbant liquid flow rate.
B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]	N/A	N/A
C. QA/QC Practices and Criteria [64.3(b)(3)]	The pH meter calibration is checked weekly.	The Permittee is subject to the calibration, maintenance, and operation of the continuous monitoring system.
D. Monitoring Frequency [64.3(b)(4)]	Continuously (minimum of once per every 15 minutes)	Continuously (minimum of once per every 15 minutes)
Data Collection Procedures [64.3(b)(4)]	Continuous Monitoring System (CMS) to record pH every 15 minutes	Continuous Monitoring System (CMS) to record flow rate every 15 minutes
Averaging Period [64.3(b)(4)]	3-hour rolling average	3-hour rolling average

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5.2.11 The Permittee shall comply with the performance criteria listed in the table below for the sulfur dioxide (SO₂) emissions from Backup Incinerator (Source Code: R480).
[40 CFR 64.6(c)(1)(iii)]

Performance Criteria [64.4(a)(3)]	Indicator No. 1 Scrubbant pH	Indicator No. 2 Scrubbant Recirculation Flow Rate
A. Data Representativeness [64.3(b)(1)]	Place the pH sensor in a position that provides a representative measurement of scrubber effluent pH. Ensure the sample is properly mixed and representative of fluid being measured.	± 5 percent of the design scrubbant liquid flow rate.
B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]	N/A	N/A
C. QA/QC Practices and Criteria [64.3(b)(3)]	The pH meter calibration is checked weekly.	The Permittee is subject to the calibration, maintenance, and operation of the continuous monitoring system.
D. Monitoring Frequency [64.3(b)(4)]	Continuously (minimum of once per every 15 minutes)	Continuously (minimum of once per every 15 minutes)
Data Collection Procedures [64.3(b)(4)]	Continuous Monitoring System (CMS) to record pH every 15 minutes	Continuous Monitoring System (CMS) to record flow rate every 15 minutes
Averaging Period [64.3(b)(4)]	3-hour rolling average	3-hour rolling average

PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS**6.1 General Record Keeping and Reporting Requirements**

6.1.7 For the purpose of reporting excess emissions, exceedances or excursions in the report required in Condition 6.1.4, the following excess emissions, exceedances, and excursions shall be reported:

[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

a. Excess emissions: (means for the purpose of this Condition and Condition 6.1.4, any condition that is detected by monitoring or record keeping which is specifically defined, or stated to be, excess emissions by an applicable requirement)

i. Recovery Boilers #5 and #6 (Source Codes: R401 and R407)

(A) TRS Emissions from Recovery Boiler #5:

(I) Any 24-hour average greater than 20 ppm TRS on a dry basis, corrected to 8% oxygen.

(II) Any 24-hour average greater than 10 ppm TRS on a dry basis, corrected to 8% oxygen, after the modifications to Recovery Boiler #5 as described by Application No. 16576 dated January 18, 2006.
[40 CFR 52.21 BACT]

(F) Any 12-hour average greater than 100 ppm NO_x by volume corrected to 8% oxygen for either Recovery Boilers #5 or #6, after the modifications to Recovery Boilers #5 or #6 as described by Application No. 16576 dated January 18, 2006.
[40 CFR 52.21 BACT]

(G) Any 30-consecutive day average greater than 300 ppm CO by volume corrected to 8% oxygen for either Recovery Boilers #5 or #6 after the modifications to Recovery Boilers #5 or #6 as described by Application No. 16576 dated January 18, 2006.
[40 CFR 52.21 BACT]

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- iii. Power Boilers (Source Codes U700, U706 and U707)
 - (A) Any 6-minute period during which the opacity of the exit stack gas of Power Boiler #4 (Source Code U700) greater than 40%. Excess emissions shall not include any such periods which occur within 15 minutes after a fluctuation in the mill steam load of more than 100,000 pph, absent a determination by the Division or the Company that, given the current boiler and feed system configuration, such periods are due to a reason other than an unavoidable fluctuation in the mill steam load of more than 100,000 pph. The Permittee shall identify in the quarterly report the number of such periods resulting from the specified fluctuations in mill steam load.

- iv. Steam Strippers, Incinerator/ Scrubber System (Source Codes: R441, R480, R488, RIS2, RIS1, and R500)
 - (A) Any 3-hour average during which the temperature in the Primary NCG Incinerator (Source Code R488) is below 1290°F or the temperature established by Condition 4.2.22 after the performance test is approved (after the modifications to the Primary Incinerator as described in Application No. 16576 are completed).
[40 CFR 63.443(d)]

 - (E) Any 3-hour average during which the steam-to-condensate ratio or process wastewater column feed temperature for the Steam Stripper #2 measured in accordance with 5.2.3.1, is not maintained within $\pm 10\%$ of the following:
[40 CFR 63.453(g), EPA approved alternative monitoring plan dated October 30, 2002]
 - (I) Steam-to-condensate ratio less than the value determined in accordance with Condition 4.2.25.

 - (II) Process Wastewater Column Feed Temperature less than the value determined in accordance with Condition 4.2.25.

- vi. Lime Kiln #6 (Source Code: L560)
 - (A) Any 12-hour average greater than 8 parts per million TRS on a dry basis, corrected to 10% oxygen by volume from Lime Kiln #6 Scrubber (Source Code: LKS2)
[40 CFR 60.284(d)(2) and 40 CFR 52.21 BACT for H₂S]

 - (B) Any 30-day rolling average greater than 250 ppm nitrogen oxides (NO_x) by volume corrected to 8% oxygen for Lime Kiln #6 while firing petroleum coke.
[40 CFR 52.21 BACT]

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- (C) Any 30-day rolling average greater than 150 ppm nitrogen oxides (NO_x) by volume corrected to 8% oxygen for Lime Kiln #6 while firing fuels other than petroleum coke.
[40 CFR 52.21 BACT]
 - (D) Any 30-day rolling average greater than 1.12 pounds carbon monoxide (CO)/ton of CaO for Lime Kiln #6.
[40 CFR 52.21 BACT]
- b. Exceedances: (means for the purpose of this Condition and Condition 6.1.4, any condition that is detected by monitoring or record keeping that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) do not meet the applicable emission limitation or standard consistent with the averaging period specified for averaging the results of the monitoring)
- i. Cluster Rule
 - (D) Any 5-minute period of process operation during which any portion of the total HAP emissions from each HVLC system in the kraft pulp mill are not controlled.
[40 CFR 63.443(a)(1)(ii) and (a)(2)]
 - iii. Recovery Boilers #5 and #6 (Source Codes: R401 and R407)
 - (C) Any monthly determination in which the 12-consecutive month total fuel oil combusted in Recovery Boiler #5 exceeds 2,100,000 gallons.
[Avoidance of 40 CFR 52.21]
 - (D) Any 12-hour average greater than 4 ppm H₂S by volume corrected to 8% oxygen for either Recovery Boilers #5 and #6 as calculated per Condition 6.2.33, after the modifications to Recovery Boiler #5 or #6 as described by Application No. 16576 dated January 18, 2006.
[40 CFR 52.21 BACT]

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- v. Periods of monitoring exceedances reported for 6.1.7.b.v(A) through (J) shall be a violation of 40 CFR 63 Subpart MM when six or more 3-hour average parameter values (excluding periods of startup, shutdown, or malfunction) within any 6-month reporting period are outside the parameter limits listed below. For purposes of determining the number of non-opacity monitoring exceedances, no more than one exceedance will be attributed in any given 24-hour period. Note: The above mentioned provisions are only for determining 40 CFR 63 Subpart MM exceedances. Single event exceedances of the following parameters still occur for other regulations.
[40 CFR 63.864(k)(2)(iii) and (vi) and 40 CFR 63.864(k)(3)]
- (F) Any three-hour rolling average in which the Scrubbant Flow Rate from the #6 Smelt Tank Scrubber (Source Code: RSS6) is less than the value determined in accordance with Condition 4.2.24, after the modifications as described by Application No. 16576 dated January 18, 2006.
- (G) Any three-hour rolling average in which the Scrubbant Supply Pressure for the #6 Smelt Tank Scrubber (Source Code: RSS6) is less than the value determined in accordance with Condition 4.2.24, after the modifications as described by Application No. 16576 dated January 18, 2006.
- (H) Any three-hour block average in which the secondary power for the Lime Kiln #6 ESP (Source Code LEP2) is less than the value determined in accordance with Condition 4.2.18.
- (I) Any three-hour rolling average in which the Scrubbant Recirculation Rate from the Lime Kiln #6 Scrubber (Source Code LKS2) is less than the value determined in accordance with Condition 4.2.18.
- (J) Any three-hour rolling average in which the Scrubbant Supply Pressure for the Lime Kiln #6 Scrubber (Source Code LKS2) is less than the value determined in accordance with Condition 4.2.18.
- vii. Incinerators (Source Codes: R480 and R488)
- (A) NO_x emissions from Primary NCG Incinerator (Source Code R488) and the Backup NCG Incinerator (Source Code R480):
- (I) Any determination of the combined 12-month rolling NO_x emissions as calculated per Condition 6.1.7.d.iii(A) is greater than 215.5 tons per year.
- (II) Any determination of the 12-month rolling NO_x emissions as calculated per Condition 6.1.7.d.iii(B) is greater than 100 tons per year for Backup NCG Incinerator, after the modifications as described by Application No. 16576 dated January 18, 2006.

- (III) Any determination of the NO_x emissions as calculated per Condition 6.1.7.d.iii(C) is greater than 0.456 lb/ton ADTP (on a 30-day rolling average) for Primary NCG Incinerator, after the modifications described by Application No. 16576 dated January 18, 2006.
- viii. Lime Kiln #6 (Source Code: L560)
- (A) Any 12-hour average greater than 8 ppm H₂S by volume corrected to 10% oxygen for Lime Kiln #6.
[40 CFR 52.21 BACT]
- (B) Any 12-hour average greater than 145 pounds/hour nitrogen dioxide (NO_x) for Lime Kiln #6 as calculated per Condition 6.2.35.
[40 CFR 52.21 BACT]
- c. Excursions: (means for the purpose of this Condition and Condition 6.1.4, any departure from an indicator range or value established for monitoring consistent with any averaging period specified for averaging the results of the monitoring)
- v. Nos. 5 and 6 Smelt Tanks (Source Codes: R403 and R408)
- (D) Any required determination in which the pH of the scrubbant in the No. 6 Smelt Tank Scrubber (Source Code: RSS6) is less than the value established in accordance with Condition 4.2.24, after the modifications described by Application No. 16576 dated January 18, 2006.
- vi. Bleach Plant (Source Codes: BG10, B250, and BG06)
- (I) Any required determination in which the Scrubbant temperature for the SVP-LITE Tail Gas Scrubber (Source Code BPS2) is greater than:
- (I) 50°F
- (II) Deleted
- (J) Any required determination in which the Scrubbant flow rate for the SVP-LITE Tail Gas Scrubber (Source Code BPS2) less than:
- (I) 350 gpm
- (II) Deleted
- (K) Any required determination in which the liquid-to-air ratio for Bleach Plant #4 Scrubber (Source Code BPS4) is less than the value established in accordance with Condition 4.2.23.

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- (L) Any required determination in which the oxidation/reduction potential of the recirculation flow for Bleach Plant #4 Scrubber (Source Code BPS4) is greater than the value established in accordance with Condition 4.2.23.

- ix. Lime Slaker #3 (Source Code: L561)
 - (A) Any required determination in which the flow rate of Lime Slaker #3 Scrubber (Source Code: LSS3) is less than the value as determined in accordance with Condition 4.2.21.

- x. Petroleum Coke Grinding Operations (Source Code: PC01)
 - (A) Any two consecutive adverse conditions discovered by the inspections of the Grinding Operation Baghouses and Bin Vent (Source Codes: BIN1, BIN2, and BIN3) per Condition 5.2.7.

 - (B) Any required determination in which the pressure drop of the Grinding Operation Baghouses are less than the values as determined in accordance with Condition 4.2.26 for the following:
 - (I) Source Code BIN1

 - (II) Source Code BIN2

- xi. Lime Kiln #6 (Source Code: L560)
 - (A) Any three-hour rolling average in which the pH of the recirculation flow for the Lime Kiln #6 Scrubber (Source Code LKS2) is less than the value determined in accordance with Condition 4.2.18.

- d. In addition to the excess emissions, exceedances and excursions specified above, the following should also be included with the report required in Condition 6.1.4:
 - iii. Incinerators (Source Codes R480 and R488)
 - (A) The Permittee shall calculate and report the 12-month rolling total NO_x emissions from the Primary NCG Incinerator (Source Code R488) and the Backup NCG Incinerator (Source Code R480) using the methanol flow rates recorded per condition 5.2.2.b.vii & viii and the Division approved NO_x emissions factors.

 - (B) After the modifications described by Application No. 16576 dated January 18, 2006, the Permittee shall calculate and report the 12-month rolling total NO_x emissions from the Backup NCG Incinerator (Source Code R480) using the testing results from Condition 4.2.22.

- (C) After the modifications described by Application No. 16576 dated January 18, 2006, the Permittee shall calculate and report the 30-day rolling average NOx emissions from the Primary NCG Incinerator (Source Code R488) using the testing results from Condition 4.2.22 and the monitoring data from Condition 5.2.3.i.i.

- v. Any period when ten consecutive 6-minute opacity averages result in a measurement greater than 20% opacity for Recovery Boiler #5.
[40 CFR 63.864(k)(1)(i)]

- vi. Any period when ten consecutive 6-minute opacity averages result in a measurement greater than 20% opacity for Recovery Boiler #6.
[40 CFR 63.864(k)(1)(i)]

- vii. Power Boiler #4 (Source Code: U700)
 - (A) Each month's twelve-month rolling total sulfur dioxide emissions from Power Boiler #4 as calculated by Condition 6.2.28.

 - (B) Each month's twelve-month rolling total carbon monoxide emissions from Power Boiler #4 as calculated by Condition 6.2.29.

 - (C) Each month's twelve-month rolling total volatile organic compound emissions from Power Boiler #4 as calculated by Condition 6.2.30.

 - (D) Each month's twelve-month rolling total nitrogen oxides emissions from Power Boiler #4 as determined by Condition 6.2.31.

6.2 Specific Record Keeping and Reporting Requirements

Cluster Rule

6.2.14 Deleted

6.2.18 Deleted

40 CFR 63 Subpart MM

6.2.23 The Permittee shall notify the Division prior to any of the following:

- d. The air pollution control system is modified or replaced for Lime Kiln #6 (Source Code: L560).
[40 CFR 63.867(b)(3)(i)]

- e. A change in a continuous monitoring parameter, the value of a continuous monitoring parameter, or the range of values for a continuous monitoring parameter for the Lime Kiln #6 (Source Code: L560)
[40 CFR 63.867(b)(3)(iii)]

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- 6.2.24 The Permittee shall implement the corrective action plan as developed in Condition 6.2.17 if any of the following monitoring exceedances occur:
[40 CFR 63.864(k)(1)]
- x. Lime Kiln #6 Scrubber (Source Code: LKS2) scrubbant supply pressure less than the value determined in accordance with 40 CFR 63.865 for any three-hour rolling average.
[40 CFR 63.864(k)(1)(v)]
 - xi. Lime Kiln #6 Scrubber (Source Code: LKS2) scrubbant recirculation flow rate less than the value determined in accordance with 40 CFR 63.865 for any three-hour rolling average.
[40 CFR 63.864(k)(1)(v)]
 - xii. Lime Kiln #6 ESP (Source Code: LEP2) secondary power less than the value determined in accordance with 40 CFR 63.865 for any three-hour block average.
[40 CFR 63.864(k)(1)(vi)]
- 6.2.27 In addition to the general records required by 40 CFR 63.10(b)(2), the Permittee shall maintain records of the following information:
[40 CFR 63.866(c)]
- e. Calcium oxide (CaO) production rates in Mg/day or ton/day for Lime Kiln #6 (Source Code: L560).
[40 CFR 63.866(c)(2)]
 - f. Records of scrubbant supply pressure and scrubbant flow rate for the Lime Kiln #6 Scrubber (Source Code: LKS2), and total secondary power for Lime Kiln #6 ESP (Source Code: LEP2). Records shall include any period when the operating parameter levels were inconsistent with the levels established during the initial performance test, with a brief explanation of the cause of the deviation, the time the deviation occurred, the time corrective action was initiated and completed, and the corrective action taken.
[40 CFR 63.866(c)(3)]
 - g. Records of monitoring parameter ranges established for the Lime Kiln #6 Scrubber and Lime Kiln #6 ESP (Source Codes: LKS2 and LEP2).
[40 CFR 63.866(c)(5)]

Power Boiler #4

- 6.2.29 Using the monitoring data acquired in Condition 5.2.1.f and heat input data, the Permittee shall calculate monthly carbon monoxide emissions from Power Boiler #4 (Source Code: U700). All calculations used to determine the total must be kept as part of the record. The monthly emissions shall be used to calculate the twelve-month rolling total carbon monoxide emissions. Each month's twelve-month rolling total shall be the sum of the current month's emissions plus the previous eleven months' emissions. Any twelve-month rolling total that exceeds 1,183 tons carbon monoxide per year must be reported per Condition 6.1.7.a.iii(H).
[Avoidance of 40 CFR 52.21]

40 CFR 63 Subpart GGGGG

- 6.2.32 The Permittee shall prepare and maintain written documentation to support the determination of the HAP quantity used to demonstrate that the total quantity of remediation material (as listed in Table 1 of 40 CFR 63 Subpart GGGGG) that was/will be excavated, extracted, pumped, or otherwise removed during any site remediation at the facility is less than 1 megagram per year of total HAP. This documentation must include a description of the methodology and data used to determine the total HAP content of the material.
[40 CFR 63.7881(c)(1) and 40 CFR 63.7881(c)(2)]

Recovery Boilers #5 and #6 (Source Codes: R401 and R407)

- 6.2.33 The Permittee shall use the TRS/H₂S ratios established during testing required by Conditions 4.2.19.c and 4.2.20.c and the emissions data acquired by Condition 5.2.1.e.i and 5.2.1.c.i to calculate the hydrogen sulfide emissions from Recovery Boiler #5 and Recovery Boiler #6, respectively. All calculations and records used to determine the emissions shall be kept as part of the record. Any 12-hour average in excess of 4 ppm, by volume, corrected to 8% oxygen, shall be reported as an exceedance in Condition 6.1.7.b.iii(D).
[40 CFR 52.21 BACT]
- 6.2.34 The Permittee shall use the monitoring data acquired in Condition 5.2.3.d.iii to determine the 12-month rolling total of fuel oil fired in Recovery Boiler #5. All calculations and records used to determine the emissions shall be kept as part of the record. Any 12-month rolling total in excess of 2,100,000 gallons shall be reported as an exceedance in Condition 6.1.7.b.iii.(C).
[40 CFR 52.21 BACT]

Lime Kiln #6 (Source Code: L560)

- 6.2.35 The Permittee shall submit for Division approval, within 120 days of startup, a method to determine nitrogen oxides emissions in pounds/hour from Lime Kiln #6 in order to show compliance with the emission limit contained in Condition 3.2.27.c.ii. The Permittee shall use the approved method and report any 12-hour average in excess of 145 lb/hour as an exceedance in Condition 6.1.7.b.viii(B).
[40 CFR 52.21 BACT]

Other Units

- 6.2.36 The Permittee shall submit for Division approval, within 120 days of startup of each piece of equipment referenced, a method to determine on-going compliance with the emission limits and work practices listed in Conditions 3.2.22, 3.2.23, 3.2.24, 3.2.25, and 3.2.26.
[40 CFR 52.21 BACT and BACT Work Practices]

Woodyard Area (Equipment Group: WY01)

- 6.2.37 The Permittee shall maintain a record of all actions taken to suppress fugitive dust from the Woodyard areas and any other sources of fugitive dust per the requirements of Condition 3.4.32. Such records shall include date and time of occurrence and a description of actions taken.
[40 CFR 70.63(a)(3)(i) and 391-3-1-.02(2)(n)]

PART 7.0 OTHER SPECIFIC REQUIREMENTS**7.14 Specific Conditions Associated with this Amendment**

7.14.1 The following new and modified Part 3.0 conditions shall become effective upon startup of each new unit listed below. The associated testing, monitoring, record keeping, and reporting requirements shall also become effective upon startup of each respective piece of equipment.

[40 CFR 70.6(a)(3)(i) and 391-3-1-.02(6)(b)(1)]

- a. Bleach Plant #4 (Source Code: BG06) – 3.2.12, 3.2.26
- b. Evaporator Set #6 (Source Code: R495)– 3.3.11
- c. Brownstock Washer System (Source Code: PG30) – 3.3.38
- d. Lime Slaker #3 (Source Code: L561) – 3.2.22
- e. Causticizing Area (Source Codes: L556, L557, and L558) – 3.2.23
- f. Petroleum Coke Grinding Operations (Source Code: PC01) – 3.2.25, 3.4.29 through 3.4.31
- g. Digesters (Source Codes: P230-P233) – 3.3.11
- h. Lime Kiln #6 (Source Code: L560) – 3.2.27, 3.3.1, 3.3.26, 3.4.24 through 3.4.28

7.14.2 Once each of the following equipment is permanent shutdown, all associated emission limits, testing, monitoring, record keeping, and reporting requirements for each piece of equipment shall become null and void.

[40 CFR 70.6(a)(3)(i) and 391-3-1-.02(6)(b)(1)]

- a. Bleach Plants #1-#3 (Source Code: BG01)
- b. Hardwood Washers (source Code: PG27)
- c. Softwood Washers (Source Code: PG28)
- d. Recovery Boiler Concentrator #1 (Source code: R483)
- e. Evaporator Sets #3 and #4 (Source Codes: 405V-413V, R442, and R443)
- f. Bleach Plant 2nd Stage Washer (Source Code: BG03)
- g. Bleach Plant 2nd & 4th Stage Towers (Source Code: BG07)
- h. West Lime Slaker (Source Code: L514)

Attachments

- A. List of Standard Abbreviations and List of Permit Specific Abbreviations

