

Part 70 Operating Permit

Permit Number: 1455-289-0001-V-04-0 **Effective Date:**

Facility Name: KaMin LLC ~ Macon Plant

Facility Address: 822 Huber Road
Macon, Georgia 31217 (Twiggs County)

Mailing Address: 822 Huber Road
Macon, Georgia 31217

Parent/Holding Company: KaMin LLC

Facility AIRS Number: 04-13-289-00001

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 Part 70 Permit for:

The operation of "an inert nonmetallic mineral processing plant" as defined in 40 CFR 60.671 as well as the associated air pollution equipment.

This Permit 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. Unless modified or revoked, this Permit expires five years after the effective date indicated above.

This Permit may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above, for any misrepresentation made in Title V Application No. TV-19886 signed on September 1, 2010, any other applications upon which this Permit is based, supporting data entered therein or attached thereto, or any subsequent submittal of supporting data, or for any alterations affecting the emissions from this source.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 53 pages.

Director
Environmental Protection Division

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PART 1.0 FACILITY DESCRIPTION

1.1 Site Determination

There are no other facilities which are deemed contiguous or adjacent and under common control.

1.2 Previous and/or Other Names

Huber Engineered Materials
J.M. Huber Corporation

1.3 Overall Facility Process Description

The following is a description of the operations used to process "inert nonmetallic minerals" as defined in 40 CFR 60.671.

Mining and Degritting: The Macon facility is currently permitted to receive material from two general mining operations, one in Twiggs County and the other in Wilkinson County. Crude clay is strip mined with draglines and hauled by truck to a stationary blunger where it is degrittied, turned into slurry, and pumped approximately 6 miles to the Macon facility from the Twiggs County operation (23 miles in case of the Wilkinson County operation). The same shall be done for other permitted crude minerals.

Wash Plant Operations: Mineral slurry received from the mines is kept segregated according to viscosity, brightness, and particle size. The slurry is centrifuged for particle sizing, grinded for delamination in attrition mills, ozonated for increased brightness, and magnetically separated for ferrous material removal. The slurry is then rotary-vacuum filtered to dewater it, at which time it is called "filter cake." Soda ash and lime are used for pH adjustment and steam is applied and used in the centrifuging and filtering processes.

Spray Dryers: To produce dry mineral products, the "filter cake" is dried to approximately 1% moisture with a hot air stream generated by a furnace fueled by natural gas or No. 2 fuel oil. Both the No. 2 and No. 4 Spray Dryers are equipped with a heat recovery unit. After spray drying, the powder is stored in silos, and then either bagged, sold as bulk, or sent to slurry makedown.

Slurry Makedown: Some of the mineral products are sold as high percentage solids slurry. To achieve this, the spray-dried clay is mixed with "filter cake" and heavily agitated in a Makedown system and the product is either loaded into tanker trucks or tanker railcars for shipment to the customer.

Impact Mill: The impact mill (S-645) is used to finely grind water washed minerals after spray drying.

Calciner: A portion of spray-dried mineral requires calcining in the only calciner (S-760). Calcining drives off chemically bonded water and changes the physical structure by exposing the spray-dried clay to temperatures of approximately 2,000 degrees F.

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Ink Clay: This is a small mini-plant consisting of a hot water heater (S-850), mixing tank, centrifuge, furnace (S-629), cyclone (S-630), baghouse (S-631) and rejects baghouse (S-779). This is specialty clay manufactured for the printing industry.

Calcined Treated Clays: This is a small mini-plant consisting of a turbulizer and disintegrator for applying and mixing surfactants with calcined clays.

Bagging and Railcar Loading: There are several bagging and supersack filling operations for finished product. In addition, silos are unloaded into bulk railcars.

On-Site Electrical Generation: There are two emergency diesel generators at the Twiggs County Degritting plant. One was moved from the Wilkinson County Degritting plant. There are two diesel generators at the main processing plant, and these are used for intermittent peak-shaving.

Miscellaneous: In addition to the material processing equipment, the facility has several small fuel oil tanks and gasoline tanks as well as multiple insignificant propane-fired heaters. Several mixers and slicers for material processing as well as additive storage tanks are also on site.

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PART 2.0 REQUIREMENTS PERTAINING TO THE ENTIRE FACILITY**2.1 Facility Wide Emission Caps and Operating Limits**

2.1.1 The Permittee shall not discharge or cause the discharge into the atmosphere from the entire facility sulfur dioxide (SO₂), nitrogen oxides (NO_x) or volatile organic compounds (VOCs) emissions in amounts equal to or in excess of 250 tons during any 12 consecutive months. Furthermore, the Permittee shall:
[40 CFR 52.21 Avoidance]

- a. Limit fuels fired in fuel-burning sources and Calciners to natural gas, propane and fuel oil numbers 1 or 2 as defined by ASTM D396, *Standard Specifications of Fuel Oils*.
- b. Limit the use of each of Generator #1 (S-695) and Generator #2 (S-696) to no more than 1,200 hours during any 12 consecutive months.

2.1.2 The Permittee shall not discharge or cause the discharge into the atmosphere from the entire facility any single hazardous air pollutant (HAP) which is listed in Section 112 of the Clean Air Act, in an amount equal to or exceeding 10 tons during any 12 consecutive months, or any combination of such listed pollutants in an amount equal to or exceeding 25 tons during any 12 consecutive months.
[40 CFR 63, National Emission Standards for Hazardous Air Pollutants, Avoidance]

2.2 Facility Wide Federal Rule Standards

2.2.1 The Permittee shall comply with the applicable provisions of 40 CFR 60, *Standards of Performance for New Stationary Sources, Subpart A, General Provisions*.
[40 CFR 60.1-19]

2.2.2 The Permittee shall comply with applicable provisions of 40 CFR 63, *National Emission Standards for Hazardous Air Pollutants (NESHAPs) For Source Categories, Subpart A, General Provisions*, as specified in Table 8 to 40 CFR 63, Subpart ZZZZ, *NESHAPs for Stationary Reciprocating Internal Combustion Engines*.
[40 CFR 63.1-16, 40 CFR 63.6665]

2.3 Facility Wide SIP Rule Standards

None applicable.

2.4 Facility Wide Standards Not Covered by a Federal or SIP Rule and Not Instituted as an Emission Cap or Operating Limit

None applicable.

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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 Emission Units

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
S-621	Boiler #1	391-3-1-.02(2)(b) 391-3-1-.02(2)(d) 391-3-1-.02(2)(g)	3.4.2, 3.4.3, 3.4.4, 5.2.6, 5.2.7, 5.2.8, 6.2.2, 6.2.4, 6.2.6	None	None
S-695	Generator #1 (1405 hp compression ignition)	391-3-1-.02(2)(b) 391-3-1-.02(2)(g) 40 CFR 63 Subpart ZZZZ	3.3.3, 3.4.2, 3.4.4, 4.2.3, 5.2.6, 5.2.7, 5.2.13, 5.2.14, 6.2.2, 6.2.4, 6.2.6, 6.2.8	None	None
S-696	Generator #2 (1405 hp compression ignition)	391-3-1-.02(2)(b) 391-3-1-.02(2)(g) 40 CFR 63 Subpart ZZZZ	3.3.3, 3.4.2, 3.4.4, 4.2.3, 5.2.6, 5.2.7, 5.2.13, 5.2.14, 6.2.2, 6.2.4, 6.2.6, 6.2.8	None	None
AST-1	No. 2 Diesel Storage	391-3-1-.02(2)(b)	3.4.2	None	None
S-627	#5 Raymond Mill	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)2 391-3-1-.02(2)(b) 40 CFR 64 391-3-1-.02(2)(e)	3.2.1, 3.4.1, 3.4.2, 5.2.2, 5.2.3, 5.2.4, 5.2.7, 5.2.8, 5.2.9, 5.2.11, 6.2.2, 6.2.4	S-630 S-631	Cyclone Baghouse
S-754	Bauer Grinder (Ink Clay)	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-779	Bag Filter Receiver
S-645	Impact Mill	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-649	Baghouse
S-730	#2 Spray Dryer	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(g) 40 CFR 64 391-3-1-.02(2)(e)	3.2.1, 3.4.1, 3.4.2, 3.4.4, 5.2.2, 5.2.3, 5.2.4, 5.2.6, 5.2.7, 5.2.8, 5.2.9, 5.2.11, 6.2.2, 6.2.3, 6.2.4, 6.2.6	S-735 S-736	Baghouse Scrubber
S-687	#4 Spray Dryer	NSPS UUU 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(g) 40 CFR 64 391-3-1-.02(2)(e)	3.3.2, 3.4.1, 3.4.2, 3.4.4, 5.2.1, 5.2.4, 5.2.6, 5.2.7, 5.2.8, 5.2.9, 5.2.10, 5.2.11, 6.2.2, 6.2.3, 6.2.4, 6.2.6	S-689	Baghouse
S-760	Calciner #1 (including Furnaces #1 & #2)	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(g) 40 CFR 64 391-3-1-.02(2)(e)	3.2.1, 3.4.1, 3.4.2, 3.4.4, 5.2.2, 5.2.3, 5.2.4, 5.2.6, 5.2.7, 5.2.8, 5.2.9, 5.2.11, 6.2.2, 6.2.3, 6.2.4, 6.2.6	S-764 S-767	Baghouse
S-605	Soda Ash Bin	NSPS OOO 391-3-1-.02(2)(p)1	3.3.1, 3.4.1, 3.4.2,	S-607	Bin Vent

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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
		391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	4.2.1, 5.2.12, 6.2.7		
S-628	One-ton Bagger #12	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2, 4.2.1, 5.2.12, 6.2.7	S-779	Bag Filter Receiver
S-626	50# Vacuum Packer #11	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2, 4.2.1, 5.2.12, 6.2.7	S-779	Bag Filter Receiver
S-910	Pneumatic Conveying System from Silos 6, 7, 8, 11	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 40 CFR 64 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2, 5.2.2, 5.2.3, 5.2.9, 5.2.11	S-648	Bag Filter Receiver
S-805	Bagger #2	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2, 5.2.2, 5.2.3	S-806	Bin Vent
S-804	Bagger #2 Bin	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-806	Bin Vent
S-810	Bagger #4	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-812	Bin Vent
S-811	Bagger #4 Bin	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2, 5.2.2, 5.2.3	S-812	Bin Vent
S-639	Impact Mill Loadout Bin	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2, 5.2.2, 5.2.3	S-640	Bin Vent
S-656	One-ton Bagger #6	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2 4.2.1, 5.2.12 6.2.7	S-658	Bin Vent
S-657	One-ton Bagger #6 Bin	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2 4.2.1, 5.2.12 6.2.7	S-658	Bin Vent
S-635	Bin #1	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2	S-636	Bin Vent
S-661	Silo #5	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2	S-662	Bin Vent
S-664	Silo #6	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1	3.2.1 3.4.1	S-665	Bin Vent

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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
		391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.4.2		
S-667	Silo #7	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2	S-668	Bin Vent
S-670	Silo #8	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2	S-671	Bin Vent
S-673	Silo #9	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2	S-674	Bin Vent
S-676	Silo #10	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2	S-677	Bin Vent
S-679	Silo #11	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2	S-680	Bin Vent
S-813	Slurry Makedown Bin #1	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-815	Baghouse
S-814	Slurry Makedown Bin #2	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-815	Baghouse
S-918	Slurry Makedown Bin #4	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-819	Baghouse
S-732	#2 Spray Dryer Conveyor Belt	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-734	Baghouse
S-733	#2 Spray Dryer Bucket Elevator	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2	S-674	Bin Vent
S-691	#4 Spray Dryer Bucket Elevator	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2 4.2.1, 5.2.12, 6.2.7		
S-693	Railcar Loadout Bin	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2 4.2.1, 5.2.12, 6.2.7	S-692	Bin Vent
S-701	Silo #20	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-703	Baghouse

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ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
S-704	Silo #21	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2, 5.2.2, 5.2.3	S-706	Baghouse
S-707	Silo #22	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2, 5.2.2, 5.2.3	S-709	Baghouse
S-713	Silo #23	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2, 5.2.2, 5.2.3	S-715	Baghouse
S-717	Silo #24	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2, 5.2.2, 5.2.3	S-719	Baghouse
S-720	Silo #25	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.9	S-725	Baghouse
S-920	Silo #20 Railcar Loading Spout	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-725	Baghouse
S-921	Silo #21 Railcar Loading Spout	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-725	Baghouse
S-922	Silo #22 Railcar Loading Spout	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-725	Baghouse
S-923	Silo #23 Railcar Loading Spout	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-725	Baghouse
S-924	Silo #24 Railcar Loading Spout	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-725	Baghouse
S-925	Silo #25 Railcar Loading Spout	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-725	Baghouse
S-722	Silo #26	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2 4.2.1, 5.2.12, 6.2.7	S-723	Bin Vent
S-861	Conveyor Belt to Bagger #10A	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2 4.2.1, 5.2.12, 6.2.7	S-862	Baghouse
S-870	Conveyor Belt to Bagger #10B	NSPS OOO 391-3-1-.02(2)(p)1	3.3.1, 3.4.1, 3.4.2	S-866	Baghouse

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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
		391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	4.2.1, 5.2.12, 6.2.7		
S-881	One-ton Surge Bin #10A	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2 4.2.1, 5.2.12, 6.2.7	S-880	Bin Vent
S-882	One-ton Surge Bin Bagger #10A	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2 4.2.1, 5.2.12, 6.2.7	S-880	Bin Vent
S-886	One-ton Surge Bin #10B	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2 4.2.1, 5.2.12, 6.2.7	S-885	Bin Vent
S-887	One-ton Surge Bin Bagger #10B	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2 4.2.1, 5.2.12, 6.2.7	S-885	Bin Vent
S-750	Calcliner Unground Feed Surge Bin	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2	S-751	Baghouse
S-752	Calcine Pre-grinder #1	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)2 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-755	Bin Vent
S-753	Calcine Pre-grinder #2	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3,	S-755	Bin Vent
S-761	Calcine Pre-grinder #3	40 CFR 52.21 Avoidance NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.3.1, 3.4.1, 3.4.2, 4.2.1, 5.2.2, 5.2.3, 5.2.12, 6.2.7	S-755	Bin Vent
S-757	Calcine Pre-grind Surge Bin	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2, 5.2.2, 5.2.3,	S-755	Bin Vent
S-758	Calcine Furnace Feed Bin	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1, 3.4.2, 5.2.2, 5.2.3	S-759	Baghouse
S-769	Calcine Product Surge Bin	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3	S-770	Baghouse
S-771	Calcine Post-grinder #4	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2, 4.2.1, 5.2.2, 5.2.3, 5.2.12, 6.2.7	S-775	Baghouse
S-772	Calcine Post-grinder #5	NSPS OOO 391-3-1-.02(2)(p)1	3.3.1, 3.4.1, 3.4.2, 4.2.1,	S-775	Baghouse

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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
		391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	5.2.2, 5.2.3, 5.2.12, 6.2.7		
S-773	Calcine Post-grinder #6	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2, 4.2.1, 5.2.2, 5.2.3, 5.2.12, 6.2.7	S-775	Baghouse
S-774	Calcine Post-grinder #7	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2, 4.2.1, 5.2.2, 5.2.3, 5.2.12, 6.2.7	S-775	Baghouse
S-781	Storage Silo A	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2	S-782	Bin Vent
S-783	Storage Silo B	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2	S-784	Bin Vent
S-785	Storage Silo C	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2	S-786	Bin Vent
S-787	Storage Silo D	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2	S-788	Bin Vent
S-790	Calcine One-ton Bagger Surge Bin	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2, 4.2.1, 5.2.2, 5.2.3, 5.2.12, 6.2.7	S-791	Baghouse
S-789	Calcine One-ton Bagger #7	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2 4.2.1, 5.2.12, 6.2.7	S-911	Baghouse
S-792	Calcine One-ton Bagger #9	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2 4.2.1, 5.2.12, 6.2.7	S-827	Baghouse
S-793	50# Bag Vacuum Packer #8	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2 4.2.1, 5.2.12, 6.2.7	S-993	Bag Filter
S-795	Calcine Bagger (2 spout) #5	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2	S-799	Baghouse
S-798	Calcine Bagger (2 spout) Feed Bin #5	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1 3.4.1 3.4.2, 5.2.2, 5.2.3,	S-796	Baghouse
S-950	Twiggs County (Degritting Plant) - Feed Hopper	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(n)	3.3.1, 3.4.1, 3.4.2, 3.4.5, 4.2.1, 5.2.12,	None	None

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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
		391-3-1-.02(2)(e)	6.2.7		
S-951	Twiggs County (Degritting Plant) - Belt Conveyor	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(n) 391-3-1-.02(2)(e)	3.3.1, 3.4.1, 3.4.2, 3.4.5, 4.2.1, 5.2.12, 6.2.7	None	None
S-629	#5 Raymond Mill Furnace	391-3-1-.02(2)(b) 391-3-1-.02(2)(g)	3.4.2 3.4.4	None	None
None	Twiggs County Degritter (1005 hp compression ignition)	391-3-1-.02(2)(b) 391-3-1-.02(2)(g) 40 CFR 63 Subpart ZZZZ	3.3.3, 3.4.2, 3.4.4, 4.2.3, 5.2.6, 5.2.7, 5.2.13, 5.2.14, 6.2.2, 6.2.4, 6.2.6, 6.2.8	None	None

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

3.2 Equipment Emission Caps and Operating Limits

3.2.1 The Permittee shall not discharge or cause the discharge into the atmosphere from: [40 CFR 52.21 Avoidance]

- a. Each of the following sources, emissions that contain particulate matter in excess of 0.0375 g/dscm (0.015 grains/dscf).

Source	Emission Unit ID
Calcine Underground Feed Surge Bin	S750
Calcine Pre-Grinder #1	S752
Calcine Pre-Grinder #2	S753
Calcine Pre-Grinder #3	S761
Calcine Pre-Grinder Surge Bin	S757
Calcine Furnace Feed Bin	S758
Calcliner #1	S760
Calcine Product Surge Bin	S769
Storage Silo A	S781
Storage Silo B	S783
Storage Silo C	S785
Storage Silo D	S787

- b. Each of the following sources, emissions that contain particulate matter in excess of 0.05 g/dscm (0.02 grains/dscf).

Source	Emission Unit ID
#5 Raymond Mill	S627
Bin No. 1	S635
Impact Mill Loadout Bin	S639
Silo #5	S661
Pneumatic Conveying System to Silo 6	S910
Silo #6	S664
Pneumatic Conveying System to Silo 7	S910

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Silo #7	S667
Pneumatic Conveying System to Silo 8	S910
Silo #8	S670
Silo #9	S673
Silo #10	S676
Silo #11	S679
Pneumatic Conveying System to Silo 11	S910
Silo #20 Railcar Loading Spout	S920
Silo #21 Railcar Loading Spout	S921
Silo #22 Railcar Loading Spout	S922
Silo #23 Railcar Loading Spout	S923
Silo #24 Railcar Loading Spout	S924
Silo #25 Railcar Loading Spout	S925
#2 Spray Dryer	S730
#2 Spray Dryer Conveyor Belt	S732
#2 Spray Dryer Bucket Elevator	S733
Bauer Grinder	S754
Calcine Bagger #5	S795
Calcine Bagger Feed Bin #5	S798

- c. Each of the following sources, emissions that contain particulate matter in excess of 0.10 g/dscm (0.04 grains/dscf).

Source	Emission Unit ID
Impact Mill	S645
Bagger #2	S805
Bagger #2 Bin	S804
Bagger #4	S810
Bagger #4 Bin	S811
Slurry Makedown Bin #1	S813
Slurry Makedown Bin #2	S814
Slurry Makedown Bin #4	S918

- d. Each of the following sources, emissions that contain particulate matter in excess 0.10 lb/ton.

Source	Emission Unit ID
Silo #20	S701
Silo #21	S704
Silo #22	S707
Silo #23	S713
Silo #24	S717
Silo #25	S720

3.3 Equipment Federal Rule Standards

- 3.3.1 The Permittee shall comply with the provisions of 40 CFR 60 Subpart OOO, “Standards of Performance for Nonmetallic Mineral Processing Plants,” for all subject equipment {for

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reference, see listing in Section 3.1}. In particular, for equipment in fixed or portable nonmetallic mineral processing plants which is subject to 40 CFR 60 Subpart OOO, the Permittee shall comply with the following for each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station:

[40 CFR 60.672] [Vault NS-017-EL, 02/10]

a. The Permittee shall not discharge or cause the discharge into the atmosphere, from each affected facility/source constructed, modified, or reconstructed after August 31, 1983 but before April 22, 2008, any

- i. fugitive emissions (including those escaping capture systems) greater than 10 percent opacity except for any crusher that does not use a capture system, which shall not exhibit fugitive emissions greater than 15 percent opacity.
- ii. stack emissions from capture systems feeding a dry control device which:
 - (A) contain particulate matter in excess of 0.05 g/dscm (0.022 grains/dscf) except for individually enclosed storage bins.
 - (B) exhibit greater than 7 percent opacity.
- iii. Any baghouse that controls emissions from only an individually enclosed storage bin is exempt from the stack PM concentration limit (and associated performance testing) in paragraph a.ii.(A) but shall meet the stack opacity limit in paragraph a.ii.(B).

In particular, for any transfer point on a conveyor belt or any other affected facility enclosed in a building, each enclosed affected facility shall comply with the emission limits in paragraphs a.i. and a.ii. of this condition, or the building shall comply with the following emission limits:

- iv. Fugitive emissions from the building openings (except vents with mechanically induced air flow for exhausting PM emissions from the building) shall not exceed 7 percent opacity.
 - v. PM emissions from any aforementioned vent shall not:
 - (A) contain particulate matter in excess of 0.05 g/dscm (0.022 grains/dscf).
 - (B) exhibit greater than 7 percent opacity.
 - vi. The emission limit in paragraph a.ii.(B) with associated opacity testing requirements do not apply for affected facilities using wet scrubbers.
- b. The Permittee shall not discharge or cause the discharge into the atmosphere, from each affected facility/source constructed, modified, or reconstructed on or after April 22, 2008, any

- i. fugitive emissions (including those escaping capture systems) exhibiting greater than 7 percent opacity except for any crusher that does not use a capture system, which shall not exhibit fugitive emissions greater than 12 percent opacity.
- ii. stack emissions from capture systems feeding a dry control device which contain particulate matter in excess of 0.032 g/dscm (0.014 grains/dscf) except for individually enclosed storage bins.
- iii. Any dry control device that controls emissions from an individually enclosed storage bin is exempt from the stack PM concentration limit (and associated performance testing) in paragraph (b)(ii) but shall not exhibit greater than 7 percent stack opacity.

In particular, for any transfer point on a conveyor belt or any other affected facility enclosed in a building, each enclosed affected facility shall comply with the emission limits in paragraphs b.i. and b.ii., or the building shall comply with the following emission limits:

- iv. Fugitive emissions from the building openings (except vents with mechanically induced air flow for exhausting PM emissions from the building) shall not exceed 7 percent opacity.
 - v. PM emissions from any building vent with mechanically induced air flow for exhausting PM emissions shall not contain particulate matter in excess of 0.032 g/dscm (0.014 grains/dscf).
- c. Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of paragraphs a. and b.

3.3.2 The Permittee shall comply with the applicable provisions of 40 CFR 60 Subpart UUU, *Standards of Performance for Calciners and Dryers in Mineral Industries*, for all subject equipment {for reference, see listing in Section 3.1 above}. In particular, the Permittee shall not discharge or cause the discharge into the atmosphere, from each of the emission units subject to 40 CFR 60 Subpart UUU, any gases which:

[40 CFR 60.732(a) & (b)]

- a. Contain particulate matter in excess of 0.092 gram per dry standard cubic meter (g/dscm) [0.040 grain per dry standard cubic foot (gr/dscf)] for calciners and for calciners and dryers installed in series and in excess of 0.057 g/dscm (0.025 grains/dscf) for dryers.
- b. Exhibits greater than 10 percent opacity, unless the emissions are discharged from an emission unit using a wet scrubbing control device. Facilities using a wet scrubbing control device shall comply with the monitoring provisions 40 CFR 60.734 (d) and recordkeeping and reporting requirements of 40 CFR 60.735(b) & (c).

3.3.3 No later than May 3, 2013, the Permittee shall comply with the applicable provisions of 40 CFR 63 Subpart ZZZZ, *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*, for all subject equipment {for

reference, see listing in Section 3.1 above}. In particular, the Permittee shall, from each of the emission units subject to 40 CFR 63 Subpart ZZZZ:

[40 CFR 63.6590, 40 CFR 63.6595, 40 CFR 63.6603, 40 CFR 63.6640]

- a. Limit the concentration of carbon monoxide (CO) in the exhaust to 23 ppmvd at 15 percent oxygen (O₂); or
- b. Reduce CO emissions by 70 percent or more; and
- c. Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations in item a. or b. above apply; and
- d. Meet the operating limitation specified in Table 2b for the method of emission reduction or control implemented to satisfy item a. or b. above.

3.4 Equipment SIP Rule Standards

3.4.1 The Permittee shall not cause, let, suffer, permit, or allow the emission from any source, particulate matters (PM) in total quantities equal to or exceeding the allowable rate as calculated using the applicable equation below, unless otherwise specified in this Permit.

[391-3-1-.02(2)(p)1. and 2.][Vault GA-004-EL, 02/10]

- a. For each piece of equipment constructed or extensively modified after January 1, 1972:
 - i. $E = 3.59P^{0.62}$, for process input weight rate up to and including 30 tons per hour;
 - ii. $E = 17.31P^{0.16}$, for process input weight rate in excess of 30 tons per hour.
- b. For each piece of equipment constructed or put in operation on or before January 1, 1972:
 - i. $E = 4.1P^{0.67}$; for process input weight rate up to and including 30 tons per hour;
 - ii. $E = 55P^{0.11} - 40$; for process input weight rate in excess of 30 tons per hour.

Where:

E = allowable emission rate in pounds per hour;

P = process input weight rate in tons per hour.

3.4.2 The Permittee shall comply with the applicable provisions of Georgia Air Quality Control Rule 391-3-1-.02(2)(b), *Visible Emissions*; for all subject equipment {for reference see listing in Section 3.1}. In particular, the Permittee shall not cause, let, suffer, permit, or allow emissions, from direct sources of emissions at any air contaminant source, the opacity of which is equal to or greater than forty (40) percent.
[391-3-1-.02(2)(b)]

- 3.4.3 The Permittee shall not cause, let, suffer, permit, or allow any emissions from Boiler #1 (S-621) which:
- Contains fly ash and/or other particulate matter in amounts equal to or exceeding the rate derived from $P = 0.5(10/R)^{0.5}$ where R equals heat input rate in million BTU per hour and P equals the allowable emission rate in pounds per million BTU.
[391-3-1-.02(2)(d)2.(ii)] [Vault GA-001-EL, 02/10]
 - Exhibit visible emissions, the opacity of which is equal to or greater than 20 percent except for one six minute period per hour of not more than 27 percent opacity.
[391-3-1-.02(2)(d)3.] [Vault GA-001-EL, 02/10]
- 3.4.4 The Permittee shall not burn fuel containing more than 2.5 percent sulfur, by weight, in Boiler #1 (S-621), #5 Raymond Mill Furnace (S-629), #4 Spray Dryer Furnace (S-687), Generator #1 (S-695), Generator #2 (S-696), #2 Spray Dryer Furnace (S-730), and Calciner #1 Furnaces #1 and #2 (S-760), unless otherwise specified by the Director.
[391-3-1-.02(2)(g)2.] [Vault GA-002-EL, 02/10]
- 3.4.5 The Permittee shall take all reasonable precautions to prevent fugitive dust from becoming airborne from any operation, process, handling, and transportation or storage facility. The opacity from any fugitive dust source shall not equal or exceed twenty percent. 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)] [Vault GA-003-EL, 02/10]
- 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;
 - Application of asphalt, water, or suitable chemicals on dirt roads, materials, stockpiles, and other surfaces that can give rise to airborne dusts;
 - 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;
 - Covering, at all times when in motion, open-bodied trucks, transporting materials likely to give rise to airborne dust; and
 - The prompt removal of earth or other material from paved streets onto which earth or other material has been deposited.

3.5 Equipment Standards Not Covered by a Federal or SIP Rule and Not Instituted as an Emission Cap or Operating Limit

- 3.5.1 The Permittee shall operate all particulate matter controlling baghouses at all times that associated equipment is being operated.

[391-3-1-.03(2)(c)]

- 3.5.2 The Permittee shall maintain a sufficient number of spare bags to insure their availability shall the need for replacing defective ones arise.

[391-3-1-.03(2)(c)]

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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 unit when so directed by the Environmental Protection Division (“Division”). The test results shall be submitted to the Division within 60 days of the completion of the testing. 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 (or sixty (60) days for tests required by 40 CFR 63) prior written notice of the date of any performance test(s) 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 of those procedures which pertain to the emission units listed in Section 3.1 of this Permit are as follows:
- a. Method 1 for the determination of sample point locations.
 - b. Method 2 shall be used for the determination of stack gas flow rate.
 - c. Method 3 shall be used for the determination of stack gas molecular weight.
 - d. Method 3B shall be used to determine the emissions rate correction factor or excess air. Method 3A may be used as an alternative to Method 3B.
 - e. Method 4 shall be used for the determination of stack gas moisture.
 - f. Method 5 or Method 17, as applicable, shall be used to determine particulate matter concentration.
 - g. Method 7 or 7E shall be used for the determination of nitrogen oxide concentrations.
 - h. Method 9 and the procedures of Section 1.3 of the above referenced document shall be used for the determination of opacity.
 - i. Method 19, when applicable, to convert particulate matter and nitrogen oxide concentrations (i.e., grains/dscf for PM, ppm for gaseous pollutants), as determined using other methods specified in this section, to emission rates (i.e., lb/MMBtu).
 - j. Method 22 shall be used for the visual determination of fugitive emissions.

- k. ASTM Test Methods D1072, D3031, D4084, or D3246 shall be used for the determination of fuel sulfur content.
[Vault GA-002-TC, 02/10]
- l. Method 10 shall be used for the determination of carbon monoxide concentrations.

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 which, 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 In accordance with the provisions of 40 CFR 60.8 and for any equipment which is subject to the "New Source Performance Standards," constructed or modified at the facility, the Permittee shall, within 60 days after achieving the maximum production rate at which the equipment will be operated, but not later than 180 days after initial startup of such equipment, conduct performance test(s) and furnish the Division a written report of the results of such performance test(s), unless the equipment is specifically exempted from testing in the applicable Subpart of 40 CFR 60. The test(s) shall be conducted using the test methods and procedures specified in Condition 4.1.3. The specific pollutants, sample volumes, run times, and other testing parameters shall be as specified in the applicable Subpart of 40 CFR 60.
[40 CFR 60.8] [Vault NS-017-TC, 02/10]

- 4.2.2 The Permittee shall conduct testing for nitrogen oxides (NO_x) emissions for the purpose of establishing NO_x emissions factors for the following equipment:
 - a. Existing internal combustion (IC) engines once every sixty consecutive months.
 - b. Newly added internal combustion (IC) engines within 120 days after initial startup and, thereafter, once every sixty consecutive months.

The Permittee shall, within 45 days of completion of the testing, submit to the Division a report containing all NO_x emissions data, the proposed NO_x emissions factors established for each emissions unit, and a description of the procedures used to establish said emission factors. The final established emission factors shall contain a minimum safety factor of at least 15% to allow for variation in testing.
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

- 4.2.3 The Permittee shall conduct testing for applicable emissions for the purpose of verifying compliance with 40 CFR 63, Subpart ZZZZ, *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*, for Generator #1 (S-695), Generator #2 (S-696), and the Twiggs County Degritter.

Initial performance testing shall be conducted for carbon monoxide, and oxygen if required based on compliance option selected, within 180 days of the compliance date for such

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equipment specified in 63.6595 and according to the provisions of 40 CFR 63.7(a)(2) and procedures of 40 CFR 63.6620. Subsequent performance testing shall be conducted every 8,760 hours or 3 years, whichever comes first.

[40 CFR 63.6615, 40 CFR 63.6620 (as stated in Tables 3 and 4)]

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PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection)**5.1 General Monitoring Requirements**

- 5.1.1 Any continuous monitoring system required by the Division and installed by the Permittee shall be in continuous operation and data recorded during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Monitoring system response, relating only to calibration checks and zero and span adjustments, shall be measured and recorded during such periods. Maintenance or repair shall be conducted in the most expedient manner to minimize the period during which the system is out of service.
[391-3-1-.02(6)(b)1]

5.2 Specific Monitoring Requirements

- 5.2.1 The Permittee shall install, calibrate, maintain, and operate a Continuous Opacity Monitoring System (COMS) on the outlet of Spray Dryer No. 4 Baghouse (S-689). The COMS shall meet the performance specifications of Performance Specification 1 contained in Appendix B of the Division's *Procedures for Testing and Monitoring Sources of Air Pollutants*.
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- 5.2.2 The Permittee shall perform a check of visible emissions from all baghouses (including process baghouses) controlling emissions from sources listed in Section 3.1 of this permit, and from sources added or replaced in accordance with this permit and Rule 391-3-1-.03(6). Emission units monitored using COMs are exempt from this condition. Additionally, baghouses controlling emissions from silos with dedicated bin vents, wet screening operations, bucket elevators, screw conveyors, bagging operations, and pneumatic conveyors are exempt from this condition provided those baghouses and respective emission units are not subject to CAM per Condition 5.2.9. The Permittee shall retain a record in a daily visible emissions (VE) log suitable for inspection or submittal. The check shall be conducted at least once for each day or portion of each day of operation using procedures a through d below except when scheduling, atmospheric conditions or sun positioning prevent any opportunity to perform the daily VE check. Any operational day when scheduling, atmospheric conditions or sun position prevent a daily reading shall be reported as monitor downtime in the report required by Condition 6.1.4. Scheduling prevents a daily VE check only when an emission unit is not operating during a regularly scheduled time period established for the daily VE checks.
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- a. Determine, in accordance with the procedures specified in paragraph d of this condition, if visible emissions are present at the discharge point to the atmosphere from each of the sources and record the results in the daily (VE) log. For sources that exhibit visible emissions, the Permittee shall comply with paragraph b or c of this condition.
 - b. For each source determined to be emitting visible emissions, a qualified observer shall determine whether the emissions equal or exceed the opacity action level using

the procedure specified in paragraph d of this condition. For the purposes of this condition, a qualified observer is one who is currently certified in accordance with the certification requirements of Method 9, *Visual Determination of the Opacity of Emissions from Stationary Sources*. The determination shall cover a period of three minutes. The opacity action level is 5 percent for baghouses subject to NSPS or Condition 3.2.1 and the opacity action level is 10% for all other baghouses. The results shall be recorded in the daily (VE) log. For sources that exhibit visible emissions of greater than or equal to the opacity action level, the Permittee shall comply with paragraph c of this condition.

- c. For each source that requires action in accordance with paragraphs a. or b. of this condition, the Permittee shall determine the cause of the visible emissions and correct the problem in the most expedient manner possible. The Permittee shall note the cause of the visible emissions, the pressure drop, any other pertinent operating parameters, and the corrective action taken in the maintenance log.
- d. The person performing the determination shall stand at a distance of at least 15 feet which is sufficient to provide a clear view of the plume against a contrasting background with the sun in the 140° sector at his/her back. Consistent with this requirement, the determination shall be made from a position such that the line of vision is approximately perpendicular to the plume direction. Only one plume shall be in the line of sight at any time when multiple stacks are in proximity to each other.

5.2.3 The Permittee shall develop and implement a Preventive Maintenance Program for the baghouses specified in Condition 5.2.2 to assure that the provisions of Condition 8.17.1 are met. The program shall be subject to review and modification by the Division and shall include the pressure drop ranges that indicate proper operation for each baghouse. At a minimum, the following operation and maintenance checks shall be made on at least a weekly basis, and a record of the findings and corrective actions taken shall be kept in a maintenance log:

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

- a. Record the pressure drop across each baghouse and ensure that it is within the appropriate range.
- b. For baghouses equipped with compressed air cleaning systems, check the system for proper operation. This may include checking for low pressure, leaks, proper lubrication, and proper operation of timer and valves.
- c. For baghouses equipped with reverse air cleaning systems, check the system for proper operation. This may include checking damper, bypass, and isolation valves for proper operation.
- d. For baghouses equipped with shaker cleaning systems, check the system for proper operation. This may include checking shaker mechanism for loose or worn bearings, drive components, mountings; proper operation of outlet/isolation valves; proper lubrication.

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- e. Check dust collector hoppers and conveying systems for proper operation.
- 5.2.4 The Permittee shall install a continuous temperature monitor on the inlet of baghouses S-631, S-735, S-689, S-764, and S-767 and record the time and date of each incident when the temperature exceeds the filter bag design temperature. In lieu of monitoring temperature at the baghouse inlet, the Permittee may monitor a surrogate temperature (e.g., clay temperature or calciner outlet temperature). For each baghouse monitored by a surrogate temperature, the Permittee shall determine the equivalent filter bag design temperature and record each incident when the surrogate temperature exceeds the equivalent filter bag design temperature. The Permittee shall record the filter bag design temperature or the equivalent filter bag design temperature for each baghouse listed. Such records and any supporting calculations shall be made available for inspection.
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- 5.2.5 Once each day or portion of each day of operation, the Permittee shall inspect all emission points from the emission units listed in Table 3.1 for which no air pollution control device (APCD) is utilized and all emission points from emission units added or replaced in accordance with the provisions of Condition 7.1.2 for which no APCD is utilized. Boilers, generators, turbine generators, wet processes, Feed Hopper (S-950), Belt Conveyor (S-951), No. 2 Diesel Storage (AST-1) and emission units monitored in accordance with Conditions 5.2.1 or 5.2.2 are exempt from this condition. The inspection shall be conducted by performing a walk through of the facility and noting the occurrence of the following in a daily (VE) log:
- a. Any visible emissions. The visible emission check may be performed on the building containing the emission unit or directly on the emission unit.
 - b. Any mechanical failure or malfunction that results in increased air emissions.
- For each emission point noted with visible emissions, mechanical problems or malfunctions, the Permittee shall take corrective action in the most expedient manner possible and reinspect the unit within 24 hours to verify that no visible emissions exist. Failure to eliminate the visible emissions or to correct the mechanical failure or malfunction specified in a. and b. within 24 hours shall constitute an excursion.
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- 5.2.6 The Permittee shall install, calibrate, maintain, and operate fuel oil consumption meters on each internal combustion (IC) engine, calciner, dryer and boiler (excluding those qualifying for listing in "Attachment B" of this permit) that fires fuel oil and record fuel oil consumption monthly. Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division's monitoring requirements. The Permittee shall also record and maintain records of the amounts of fuel oil combusted each month in other fuel burning sources.
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- 5.2.7 The Permittee shall install, calibrate, maintain and operate continuous monitoring systems (or devices) to record the accumulation of hours of operation on each of fuel oil, natural gas and propane, and the total hours of operation, of each internal combustion engine

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(excluding those qualifying for listing in “Attachment B” of this permit). Where such performance specification(s) exist, each system shall show all periods of operation and 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)]

5.2.8 The Permittee shall install, calibrate, maintain, and operate a natural gas and/or propane consumption meters on each calciner, dryer and boiler (excluding those qualifying for listing in “Attachment B” of this permit). Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division's monitoring requirements. The Permittee shall record and maintain records of the amounts of natural gas and/or propane combusted each month.

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

5.2.9 The following pollutant specific emission units (PSEU) are subject to the Compliance Assurance Monitoring (CAM) Rule in 40 CFR 64.

Emission Unit	Pollutant
#5 Raymond Mill (S-627)	Particulate matter
#2 Spray Dryer (S-730)	
#4 Spray Dryer (S-687)	
Calciner #1 (S-760)	
Pneumatic Conveying Systems from Silos 6, 7, 8, 11 (S-910)	

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]

5.2.10 The Permittee shall comply with the performance criteria listed in the table below for particulate matter emissions from Spray Dryer No. 4 (S687).

[40 CFR 64.6(c)(1)(iii)]

Performance Criteria [64.4(a)(3)]	Indicator No. 1 Continuous Opacity Monitoring System (COMS)
A. Data Representativeness [64.3(b)(1)]	The continuous opacity monitoring system (COMS) is located in the exhaust stack. The COMS was installed at a representative location in the stack per 40 CFR 60, Appendix B, PS-1.
B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]	Not Applicable.

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Performance Criteria [64.4(a)(3)]	Indicator No. 1 Continuous Opacity Monitoring System (COMS)
C. QA/QC Practices and Criteria [64.3(b)(3)]	The COMS was initially installed and evaluated per PS-1. Zero and span drift are checked daily and a quarterly filter audit is performed.
D. Monitoring Frequency [64.3(b)(4)]	The opacity is monitored continuously.
Data Collection Procedures [64.3(b)(4)]	The data acquisition system (DAS) retains all 6-minute opacity data.
Averaging Period [64.3(b)(4)]	The 6-minute opacity data is used to calculate 3-hour block averages.

5.2.11 The Permittee shall comply with the performance criteria listed in the table below for particulate matter emissions from #5 Raymond Mill (S-627), #2 Spray Dryer (S-730), #4 Spray Dryer (S-687), Calciner #1 (S-760), and Pneumatic Conveying Systems from Silos 6, 7, 8, 11 (S-910). Indicator No. 3 does not apply to baghouses at this facility that do not handle hot exhaust gases.
[40 CFR 64.6(c)(1)(iii)]

Performance Criteria [64.4(a)(3)]	Indicator No. 1 Visible Emissions	Indicator No. 2 Baghouse Inspection	Indicator No. 3 Baghouse Temperature
A. Data Representativeness [64.3(b)(1)]	Visible emissions will be observed at the baghouse exhaust stack	Preventative Maintenance Program that includes checks as specified by Condition 5.2.3	Temperature monitoring for baghouses controlling calciners or dryers as specified by Condition 5.2.4
B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]	Not Applicable.	Not Applicable.	Not Applicable.
C. QA/QC Practices and Criteria [64.3(b)(3)]	The observer shall have received training acceptable to the Division to recognize the appropriate opacity action levels.	Specific QA/QC practices and criteria will be specified in the Preventive Maintenance Program required by Condition 5.2.3	The Baghouse temperature shall be continuously measured. The temperature monitoring system must be certified by the manufacturer to be accurate within 5 percent for the maximum temperature rating for the bags. Installation and calibration is done in accordance with the manufacturer's recommendations.
D. Monitoring Frequency [64.3(b)(4)]	Once per day or portion of day the emission unit is operated as prescribed in Condition 5.2.2	At least once each week	Continuous

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Performance Criteria [64.4(a)(3)]	Indicator No. 1 Visible Emissions	Indicator No. 2 Baghouse Inspection	Indicator No. 3 Baghouse Temperature
Data Collection Procedures [64.3(b)(4)]	Visual readings manually recorded in a daily visible emissions (VE) log suitable for inspection or submittal to the Division. Pressure drop and other pertinent data must be recorded in the log if a problem requiring action is detected.	Manual readings and data logging	Any instance the bag temperature is exceeded
Averaging Period [64.3(b)(4)]	Three-minute average	Not Applicable.	Not Applicable.

5.2.12 The Permittee shall comply with the detailed monitoring provisions of 40 CFR 60 Subpart OOO, “Standards of Performance for Nonmetallic Mineral Processing Plants,” for all subject equipment {for reference, see listing in Section 3.1}. In particular, [391-3-1-.02(6)(b)1, 40 CFR 60.674] [Vault NS-017-MO, 02/10]

- a. When using a wet scrubber(s) to control emissions from any affected facility/source constructed, modified, or reconstructed after August 31, 1983 but before April 22, 2008, the Permittee shall install, calibrate, maintain and operate:
 - i. A device for the continuous measurement of the pressure loss of the gas stream through the wet scrubber(s). The monitoring device shall be certified by the manufacturer to be accurate within ± 250 pascals ± 1 inch water gauge pressure and shall be calibrated on an annual basis in accordance with manufacturer's instructions.
 - ii. A device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber(s). The monitoring device shall be certified by the manufacturer to be accurate within ± 5 percent of design scrubbing liquid flow rate and shall be calibrated on an annual basis in accordance with manufacturer's instructions.
- b. When using a wet suppression to control emissions from any affected facility/source constructed, modified, or reconstructed on or after April 22, 2008, the Permittee shall:
 - i. Perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The Permittee shall initiate corrective action within 24 hours and complete corrective action as expediently as practical if the Permittee finds that water is not flowing properly during an inspection of the water spray nozzles. The Permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in a logbook.
 - (A) If an affected facility relies on water carryover from upstream water sprays to control fugitive emissions, then that affected facility is exempt

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from the 5-year repeat testing requirement provided that the following criteria is met:

- (I) The Permittee shall conduct periodic inspections of the upstream water spray(s) that are responsible for controlling fugitive emissions from the affected facility, and
 - (II) The Permittee shall designate which upstream water spray(s) will be periodically inspected at the time of the initial performance test.
 - (B) If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry shall specify the control mechanism being used instead of the water sprays.
- c. When using a baghouse(s) to control emissions from any affected facility/source constructed, modified, or reconstructed on or after April 22, 2008, the Permittee shall conduct quarterly 30-minute visible emissions inspections using EPA Method 22 (40 CFR Part 60, Appendix A-7).

The Method 22 test shall be conducted while the baghouse(s) is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the Permittee shall initiate corrective action within 24 hours to return the baghouse(s) to normal operation.

The Permittee shall record each Method 22 test, including the date and any corrective actions taken.

The Permittee may establish a different baghouse(s)-specific success level(s) for the visible emissions test (other than no visible emissions) by conducting a PM performance test according to 40 CFR 60.675(b) simultaneously with a Method 22 to determine what constitutes normal visible emissions from that affected facility's baghouse(s) when it is in compliance with the applicable PM concentration limit of this subpart. The revised visible emissions success level(s) shall be incorporated into the permit for the affected facility.

As an alternative to the periodic Method 22 visible emissions inspections:

- i. The Permittee may use a bag leak detection system according to the detailed provisions of 40 CFR 60.674(d).
- ii. Any affected facility that is subject to the requirements for processed stone handling operations in the Lime Manufacturing NESHAP (40 CFR 63, Subpart AAAAA) may follow the continuous compliance requirements in row 1 items (i) through (iii) of Table 6 to Subpart AAAAA of Part 63.

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- 5.2.13 The Permittee shall install, calibrate, maintain and operate continuous monitoring systems (or devices) to monitor and record the startup and idle time of each stationary reciprocating internal combustion engine subject to 40 CFR 63, Subpart ZZZZ, "National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)," Table 2d. Where such performance specification(s) exist, each system shall show all periods of startup and idling and 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)]
- 5.2.14 The Permittee shall comply with the applicable monitoring, installation, collection, operation, and maintenance requirements of 40 CFR 63 Subpart ZZZZ, "National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)," for all subject equipment {for reference, see listing in Section 3.1}. In particular, the Permittee shall follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Division to approve different maintenance requirements that are as protective as manufacturer requirements.
[391-3-1-.02(6)(b)1, 40 CFR 63.6625(g)]

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

6.1.1 Unless otherwise specified, all records required to be maintained by this Permit shall be recorded in a permanent form suitable for inspection and submission to the Division and to the EPA. The records shall be retained for at least five (5) years following the date of entry.

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

6.1.2 In addition to any other reporting requirements of this Permit, the Permittee shall report to the Division in writing, within seven (7) days, any deviations from applicable requirements associated with any malfunction or breakdown of process, fuel burning, or emissions control equipment for a period of four hours or more which results in excessive emissions.

The Permittee shall submit a written report that shall contain the probable cause of the deviation(s), duration of the deviation(s), and any corrective actions or preventive measures taken.

[391-3-1-.02(6)(b)1(iv), 391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(3)(iii)(B)]

6.1.3 The Permittee shall submit written reports of any failure to meet an applicable emission limitation or standard contained in this permit and/or any failure to comply with or complete a work practice standard or requirement contained in this permit which are not otherwise reported in accordance with Conditions 6.1.4 or 6.1.2. Such failures shall be determined through observation, data from any monitoring protocol, or by any other monitoring which is required by this permit. The reports shall cover each quarterly period ending March 31, June 30, September 30, and December 31 of each year, shall be postmarked by May 30, August 29, November 29, and February 28, respectively following each reporting period, and shall contain the probable cause of the failure(s), duration of the failure(s), and any corrective actions or preventive measures taken.

[391-3-1-.03(10)(d)1.(i) and 40 CFR 70.6(a)(3)(iii)(B)]

6.1.4 The Permittee shall submit a written report containing any excess emissions, exceedances, and/or excursions as described in this permit and any monitor malfunctions for each quarterly period ending March 31, June 30, September 30, and December 31 of each year. All reports shall be postmarked by May 30, August 29, November 29, and February 28, respectively following each reporting period. In the event that there have not been any excess emissions, exceedances, excursions or malfunctions during a reporting period, the report should so state. Otherwise, the contents of each report shall be as specified by the Division's Procedures for Testing and Monitoring Sources of Air Pollutants and shall contain the following:

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

- a. A summary report of excess emissions, exceedances and excursions, and monitor downtime, in accordance with Section 1.5(c) and (d) of the above referenced document, including any failure to follow required work practice procedures.
- b. Total process operating time during each reporting period.

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- c. The magnitude of all excess emissions, exceedances and excursions computed in accordance with the applicable definitions as determined by the Director, and any conversion factors used, and the date and time of the commencement and completion of each time period of occurrence.
 - d. Specific identification of each period of such excess emissions, exceedances, and excursions that occur during startups, shutdowns, or malfunctions of the affected facility. Include the nature and cause of any malfunction (if known), the corrective action taken or preventive measures adopted.
 - e. The date and time identifying each period during which any required monitoring system or device was inoperative (including periods of malfunction) except for zero and span checks, and the nature of the repairs, adjustments, or replacement. When the monitoring system or device has not been inoperative, repaired, or adjusted, such information shall be stated in the report.
 - f. Certification by a Responsible Official that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- 6.1.5 Where applicable, the Permittee shall keep the following records of required monitoring information:
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(3)(ii)(A)]
- a. The date, place, and time of sampling or measurement;
 - b. The date(s) analyses were performed;
 - c. The company or entity that performed the analyses;
 - d. The analytical techniques or methods used;
 - e. The results of such analyses; and
 - f. The operating conditions as existing at the time of sampling or measurement.
- 6.1.6 The Permittee shall maintain files of all measurements, including continuous monitoring systems, monitoring devices, and performance testing measurements; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices. These files shall be kept in a permanent form suitable for inspection and shall be maintained for a period of at least five (5) years following the date of such measurements, reports, maintenance and records.
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6 (a)(3)(ii)(B)]
- 6.1.7 For the purposes of the report as required in Condition 6.1.4, the following excess emissions, exceedances, and excursions shall be reported.
[391-3-1-.02(6)(b)1, 40 CFR 70.6(a)(3)(i), and 40 CFR 60.735(c)(1)]

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- 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. None required to be reported in accordance with Condition 6.1.4.
- 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. Each six-minutes average opacity, as recorded by the continuous opacity monitoring system installed on the outlet of Spray Dryer No. 4 control device that exceeds 10 percent.
 - ii. Any analysis of the fuel oil fired in any fuel-burning source that does not meet specification for fuel oil numbers 1 and 2 as defined by ASTM D396, *Standard Specifications of Fuel Oils*.
 - iii. Any twelve consecutive months during which sulfur dioxide (SO₂), volatile organic compounds (VOCs) or nitrogen oxides (NO_x) emissions equals or exceeds the limits set in Condition 2.1.1.
 - iv. Any twelve consecutive months period during which the facility emits a single HAP in an amount equal to or exceeding 10 tons.
 - v. Any twelve consecutive months period during which the facility emits any combination of HAPs in an amount equal to or exceeding 25 tons.
 - vi. Any twelve consecutive months period during which Generator #1 or #2 operates more than 1200 hours each.
- 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)
 - i. Any two consecutive required daily determinations of visible emissions requiring action by Condition 5.2.2 a. or b. from the same source.
 - ii. Any visible emissions or mechanical failure or malfunction discovered during the walk through described in Condition 5.2.5 that are not eliminated or corrected within 24 hours of first discovering the visible emissions or mechanical failure or malfunction.

- iii. Each occurrence when the temperature at the inlet of any baghouse specified in Condition 5.2.4 exceeds the filter bag design temperature or the equivalent filter bag design temperature recorded in accordance with Condition 5.2.4.
- iv. Any instance a weekly preventative maintenance check required by Condition 5.2.3 reveals a problem that is not resolved according to the preventative maintenance program.

6.2 Specific Record Keeping and Reporting Requirements

- 6.2.1 The Permittee shall submit reports for the quarterly period ending March 31, June 30, September 30, and December 31 during which fuel oil was combusted at the facility. All reports shall be postmarked by the 60th day following the end of each reporting period, May 30, August 29, November 29, and February 28, respectively. The report shall contain fuel supplier certifications and a certified statement from a Responsible Official that the records of fuel supplier certifications submitted represent all of the fuel oil combusted during the quarterly period. If no fuel oil was combusted during the quarterly period, the report should so state.
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- 6.2.2 The Permittee shall maintain separate monthly usage records of each type of fuel used in calciners, boilers, dryers and generators. These records shall contain all data sufficient to determine compliance with Condition 2.1.1. All usage and calculations records shall be kept as part of the monthly records. These records shall be kept available for inspection or submittal for five (5) years from the date of record.
[391-3-1-.02(6)(b) 1. & 391-3-1-.03(2)(c)]
- 6.2.3 The Permittee shall maintain monthly records of all materials containing volatile organic compounds (VOCs) and hazardous air pollutants (HAPs). These records shall include the total weight of each material used and the amount of each VOC or listed HAP contained in each material (expressed as a weight percentage). For the purposes of this condition, VOCs and HAPs used are assumed to be fully emitted into the atmosphere (i. e. at 100% release).
[391-3-1-.03(2)(c) and 40 CFR 63, National Emission Standards for Hazardous Air Pollutants, Avoidance]
- 6.2.4 To ensure compliance by the limits set forth in Section 2.1:
[391-3-1-.03(2)(c), 40 CFR 52.21 Avoidance, and 40 CFR 63, National Emission Standards for Hazardous Air Pollutants, Avoidance]
 - a. The Permittee shall use, as applicable, the NO_x emissions factors established in accordance with Condition 4.2.2 (or previously required NO_x testing), the records required in Condition 6.2.3 and emission factors from The U. S. EPA AP-42 document *Compilation of Air Pollutants Emissions Factors*, as revised, to calculate the facility monthly, and twelve consecutive months, emissions of each of the pollutants listed in the following table.

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Pollutant	Monthly Notification Threshold (Tons)
Nitrogen oxides (NO _x)	20.83
Sulfur dioxide (SO ₂)	20.83
Volatile organic compounds (VOCs)	20.83
Individual hazardous air pollutant (HAP)	0.83
Total hazardous air pollutants (HAPs)	2.08

- b. The Permittee shall notify the Division in writing, if the facility monthly emissions of one, or more, of the abovementioned pollutants exceeds, its notification threshold. The notification shall be in the quarterly report required for the period during which the exceedance took place.

Calculations methodologies and records relating to this permit condition shall be kept and made available for inspection and/or submittal to the Division for five (5) years from the date of record.

- 6.2.5 The Permittee shall maintain a record of all actions taken in accordance with Section 8.22 to suppress fugitive dust from roads, storage piles, or any other source of fugitive dust. Such records shall include the date and time of occurrence and a description of the actions taken.

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

- 6.2.6 The Permittee shall verify that each shipment of fuel oil received is distillate oil by obtaining fuel oil supplier certifications. Supplier certifications shall contain the name of the supplier and a statement from the supplier that the oil is distillate oil. For the purposes of this condition, distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 and 2 as defined in ASTM D396.

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

- 6.2.7 In addition to complying with the applicable "General Provisions" of 40 CFR 60, "Standards of Performance for New Stationary Sources," the Permittee shall comply with the detailed notification, reporting, and recordkeeping requirements of 40 CFR 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants," for all subject equipment {for reference, see listing in Section 3.1}. In particular,

[391-3-1-.02(6)(b)1 and 40 CFR 60.676] [Vault NS-017-RR, 02/10]

- a. For each affected facility/source constructed, modified, or reconstructed after August 31, 1983 but before April 22, 2008, the Permittee shall submit to the Division the following information about the existing facility being replaced and the replacement piece of equipment:

- i. for a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:

- (A) The rated capacity in megagrams or tons per hour of the existing facility being replaced; and

- (B) The rated capacity in tons per hour of the replacement equipment.
- ii. for a screening operation:
 - (A) The total surface area of the top screen of the existing screening operation being replaced; and
 - (B) The total surface area of the top screen of the replacement screening operation.
- iii. for a conveyor belt:
 - (A) The width of the existing belt being replaced; and
 - (B) The width of the replacement conveyor belt.
- iv. for a storage bin:
 - (A) The rated capacity in megagrams or tons of the existing storage bin being replaced; and
 - (B) The rated capacity in megagrams or tons of replacement storage bins.
- b. For each affected facility/source constructed, modified, or reconstructed after August 31, 1983 but before April 22, 2008, the Permittee shall:
 - i. record each periodic inspection required under 40 CFR 60.674(b) or (c), including dates and any corrective actions taken, in a logbook (in written or electronic format). The Permittee shall keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available upon request by the Division.
 - ii. maintain records of visible emissions observations required by 40 CFR 63.7132(a)(3) and (b) when demonstrating compliance according to 40 CFR 60.674(e) by following the requirements for processed stone handling operations in the Lime Manufacturing NESHAP (40 CFR 63, Subpart AAAAA).
- c. The Permittee using wet material processing operation that processes saturated and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. At the time of such change, this screening operation, bucket elevator, or belt conveyor becomes subject to the applicable opacity limit in Condition 3.3.1a.i., iv. and v. and the emission test requirements of 40 CFR 60.11.

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- d. The Subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under this subpart.
 - e. A notification of the actual date of initial startup of each affected facility shall be submitted as follows:
 - i. For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the Permittee to the Division. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.
 - ii. For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address or location of the portable plant.
- 6.2.8 The Permittee shall comply with the applicable notification, reporting, and recordkeeping requirements of 40 CFR 63 Subpart ZZZZ, “National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines,” for all subject equipment {for reference, see listing in Section 3.1}. In particular, the Permittee shall: [391-3-1-.02(6)(b)1 and 40 CFR 63.6645-6660]
- a. Submit all of the applicable notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9 (b) through (e), (g) and (h) by the dates specified.
 - b. Submit each applicable compliance report in Table 7 of 40 CFR 63 Subpart ZZZZ and in accordance with the provisions of 40 CFR 63.6650.
 - c. Keep the applicable records described in 40 CFR 63.6655.

PART 7.0 OTHER SPECIFIC REQUIREMENTS**7.1 Operational Flexibility**

7.1.1 The Permittee may make Section 502(b)(10) changes as defined in 40 CFR 70.2 without requiring a Permit revision, if the changes are not modifications under any provisions of Title I of the Federal Act and the changes do not exceed the emissions allowable under the Permit (whether expressed therein as a rate of emissions or in terms of total emissions). For each such change, the Permittee shall provide the Division and the EPA with written notification as required below in advance of the proposed changes and shall obtain any Permits required under Rules 391-3-1-.03(1) and (2). The Permittee and the Division shall attach each such notice to their copy of this Permit.
[391-3-1-.03(10)(b)5 and 40 CFR 70.4(b)(12)(i)]

- a. For each such change, the Permittee's written notification and application for a construction Permit shall be submitted well in advance of any critical date (typically at least 6 months in advance of any commencement of construction, Permit issuance date, etc.) involved in the change, but no less than seven (7) days in advance of such change and shall include a brief description of the change within the Permitted facility, the date on which the change is proposed to occur, any change in emissions, and any Permit term or condition that is no longer applicable as a result of the change.
- b. The Permit shield described in Condition 8.16.1 shall not apply to any change made pursuant to this condition.

7.1.2 The Permittee may make minor modifications &/or additions that are not addressed or prohibited by this Permit, which will automatically be covered by this permit, provided the following requirements are met:
[391-3-1-.03(6) and 391-3-1-.03(10)(b)5(i) , 40 CFR 60.670(d)(1) and 70.4(b)(12)(i)]

- a. The process is similar in function and has control system similar to permitted equipment already on site (e.g. storage bin with baghouse).
- b. The change is otherwise exempt from State permit review requirements under Rule 391-3-1-.03(6). Specifically: cumulative modifications, not covered in an existing permit, where the combined particulate matter potential to emit (PTE) increase is below 10 ton/year
- c. When calculating particulate matter PTE, NSPS grain loading emission limits and/or emission factors from AP-42 {The U. S. EPA AP-42 document, *Compilation of Air Pollutants Emissions Factors*, as revised,} should be used whenever possible. In no event may a control efficiency greater in value than estimated by AP-42 for similar equipment be used in calculating potential emissions. Any process or control equipment assumed when calculating PTE must be installed and operated in a manner consistent with good operating practices, and any requirements of this permit relating to the type of equipment used.

- d. All applicable NSPS requirements as well as any special conditions of this permit for Testing, Monitoring, Notification and Record Keeping are met.
- e. For each such change, the Permittee's written notification shall be submitted well in advance, but not less than seven (7) days in advance, of such change and shall include a brief description of the change within the permitted facility, the date on which the change is proposed to occur, an updated Section 3.1 and/or Attachment B, and calculations showing the combined particulate matter PTE increase for all cumulative modifications not covered by the existing permit reviewed by EPD. The Permittee shall maintain a copy of such notice at the facility and shall attach it to this Permit.
- f. Any control system assumed in calculating the combined particulate matter PTE increase shall become the minimum required control system and shall become a requirement of this Permit.

7.2 Off-Permit Changes

7.2.1 The Permittee may make changes that are not addressed or prohibited by this Permit, other than those described in Condition 7.2.2 below, without a Permit revision, provided the following requirements are met:

[391-3-1-.03(10)(b)6 and 40 CFR 70.4(b)(14)]

- a. Each such change shall meet all applicable requirements and shall not violate any existing Permit term or condition.
- b. The Permittee must provide contemporaneous written notice to the Division and to the EPA of each such change, except for changes that qualify as insignificant under Rule 391-3-1-.03(10)(g). Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.
- c. The change shall not qualify for the Permit shield in Condition 8.16.1.
- d. The Permittee shall keep a record describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the Permit, and the emissions resulting from those changes.

7.2.2 The Permittee shall not make, without a Permit revision, any changes that are not addressed or prohibited by this Permit, if such changes are subject to any requirements under Title IV of the Federal Act or are modifications under any provision of Title I of the Federal Act.

[Rule 391-3-1-.03(10)(b)7 and 40 CFR 70.4(b)(15)]

7.3 Alternative Requirements

[White Paper #2]

Not Applicable.

7.4 Insignificant Activities

(see Attachment B for the list of Insignificant Activities in existence at the facility at the time of permit issuance)

7.5 Temporary Sources

[391-3-1-.03(10)(d)5 and 40 CFR 70.6(e)]

Not Applicable.

7.6 Short-term Activities

(see Form D5 “Short Term Activities” of the Permit application and White Paper #1)

Not Applicable.

7.7 Compliance Schedule/Progress Reports

[391-3-1-.03(10)(d)3 and 40 CFR 70.6(c)(4)]

None applicable.

7.8 Emissions Trading

[391-3-1-.03(10)(d)1(ii) and 40 CFR 70.6(a)(10)]

Not Applicable.

7.9 Acid Rain Requirements

Not Applicable.

7.10 Prevention of Accidental Releases (Section 112(r) of the 1990 CAAA)

[391-3-1-.02(10)]

7.10.1 When and if the requirements of 40 CFR Part 68 become applicable, the Permittee shall comply with all applicable requirements of 40 CFR Part 68, including the following.

- a. The Permittee shall submit a Risk Management Plan (RMP) as provided in 40 CFR 68.150 through 68.185. The RMP shall include a registration that reflects all covered processes.
- b. For processes eligible for Program 1, as provided in 40 CFR 68.10, the Permittee shall comply with 7.10.1.a. and the following additional requirements:
 - i. Analyze the worst-case release scenario for the process(es), as provided in 40 CFR 68.25; document that the nearest public receptor is beyond the distance to a toxic or flammable endpoint defined in 40 CFR 68.22(a); and submit in the RMP the worst-case release scenario as provided in 40 CFR 68.165.
 - ii. Complete the five-year accident history for the process as provided in 40 CFR 68.42 and submit in the RMP as provided in 40 CFR 68.168

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- iii. Ensure that response actions have been coordinated with local emergency planning and response agencies
 - iv. Include a certification in the RMP as specified in specified in 40 CFR 68.12(b)(4)
- c. For processes subject to Program 2, as provided in 40 CFR 68.10, the Permittee shall comply with 7.10.1.a., 7.10.1.b. and the following additional requirements:
- i. Develop and implement a management system as provided in 40 CFR 68.15
 - ii. Conduct a hazard assessment as provided in 40 CFR 68.20 through 68.42
 - iii. Implement the Program 2 prevention steps provided in 40 CFR 68.48 through 68.60 or implement the Program 3 prevention steps provided in 40 CFR 68.65 through 68.87
 - iv. Develop and implement an emergency response program as provided in 40 CFR 68.90 through 68.95
 - v. Submit as part of the RMP the data on prevention program elements for Program 2 processes as provided in 40 CFR 68.170
- d. For processes subject to Program 3, as provided in 40 CFR 68.10, the Permittee shall comply with 7.10.1.a., 7.10.1.b. and the following additional requirements:
- i. Develop and implement a management system as provided in 40 CFR 68.15
 - ii. Conduct a hazard assessment as provided in 40 CFR 68.20 through 68.42
 - iii. Implement the prevention requirements of 40 CFR 68.65 through 68.87
 - iv. Develop and implement an emergency response program as provided in 40 CFR 68.90 through 68.95
 - v. Submit as part of the RMP the data on prevention program elements for Program 3 as provided in 40 CFR 68.175
- e. All reports and notification required by 40 CFR Part 68 must be submitted electronically (e.g., diskette or compact disc) to:

MAIL

**Attention: RMP*Submit
Risk Management Program (RMP) Reporting Center
P.O. Box 1515
Lanham-Seabrook, MD 20703-1515**

COURIER & FEDEX

**Risk Management Program (RMP) Reporting Center
C/O CSC
Suite 300
8400 Corporate Drive
New Carrollton, MD 20785**

Compliance with all requirements of this condition, including the registration and submission of the RMP, shall be included as part of the compliance certification submitted in accordance with Condition 8.14.1.

7.11 Stratospheric Ozone Protection Requirements (Title VI of the CAAA of 1990)

- 7.11.1 If the Permittee performs any of the activities described below or as otherwise defined in 40 CFR Part 82, the Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliance must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to 40 CFR 82.166.
[Note: "MVAC-like appliance" is defined in 40 CFR 82.152.]
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
- 7.11.2 If the Permittee performs a service on motor (fleet) vehicles and if this service involves an ozone-depleting substance (refrigerant) in the MVAC, the Permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include air-tight sealed refrigeration systems used for refrigerated cargo, or air conditioning systems on passenger buses using HCFC-22 refrigerant.

7.12 Revocation of Existing Permits and Amendments

The following Air Quality Permits, Amendments, and 502(b)10 are subsumed by this permit and are hereby revoked:

Air Quality Permit and Amendment Number(s)	Dates of Original Permit or Amendment Issuance
1455-289-0001-V-03-0	October 7, 2008 (Title V Renewal Permit)

7.13 Pollution Prevention

None applicable.

7.14 Specific Conditions

None applicable.

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PART 8.0 GENERAL PROVISIONS**8.1 Terms and References**

- 8.1.1 Terms not otherwise defined in the Permit shall have the meaning assigned to such terms in the referenced regulation.
- 8.1.2 Where more than one condition in this Permit applies to an emission unit and/or the entire facility, each condition shall apply and the most stringent condition shall take precedence.
[391-3-1-.02(2)(a)2]

8.2 EPA Authorities

- 8.2.1 Except as identified as “State-only enforceable” requirements in this Permit, all terms and conditions contained herein shall be enforceable by the EPA and citizens under the Clean Air Act, as amended, 42 U.S.C. 7401, et seq.
[40 CFR 70.6(b)(1)]
- 8.2.2 Nothing in this Permit shall alter or affect the authority of the EPA to obtain information pursuant to 42 U.S.C. 7414, “Inspections, Monitoring, and Entry.”
[40 CFR 70.6(f)(3)(iv)]
- 8.2.3 Nothing in this Permit shall alter or affect the authority of the EPA to impose emergency orders pursuant to 42 U.S.C. 7603, “Emergency Powers.”
[40 CFR 70.6(f)(3)(i)]

8.3 Duty to Comply

- 8.3.1 The Permittee shall comply with all conditions of this operating Permit. Any Permit noncompliance constitutes a violation of the Federal Clean Air Act and the Georgia Air Quality Act and/or State rules and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a Permit renewal application. Any noncompliance with a Permit condition specifically designated as enforceable only by the State constitutes a violation of the Georgia Air Quality Act and/or State rules only and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a Permit renewal application.
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(6)(i)]
- 8.3.2 The Permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the Permitted activity in order to maintain compliance with the conditions of this Permit.
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(6)(ii)]
- 8.3.3 Nothing in this Permit shall alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of Permit issuance.
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(f)(3)(ii)]

- 8.3.4 Issuance of this Permit does not relieve the Permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Director or any other federal, state, or local agency.
[391-3-1-.03(10)(e)1(iv) and 40 CFR 70.7(a)(6)]

8.4 Fee Assessment and Payment

- 8.4.1 The Permittee shall calculate and pay an annual Permit fee to the Division. The amount of fee shall be determined each year in accordance with the “Procedures for Calculating Air Permit Fees.”
[391-3-1-.03(9)]

8.5 Permit Renewal and Expiration

- 8.5.1 This Permit shall remain in effect for five (5) years from the effective date. The Permit shall become null and void after the expiration date unless a timely and complete renewal application has been submitted to the Division at least six (6) months, but no more than eighteen (18) months prior to the expiration date of the Permit.
[391-3-1-.03(10)(d)1(i), (e)2, and (e)3(ii) and 40 CFR 70.5(a)(1)(iii)]

- 8.5.2 Permits being renewed are subject to the same procedural requirements, including those for public participation and affected State and EPA review, that apply to initial Permit issuance.
[391-3-1-.03(10)(e)3(i)]

- 8.5.3 Notwithstanding the provisions in 8.5.1 above, if the Division has received a timely and complete application for renewal, deemed it administratively complete, and failed to reissue the Permit for reasons other than cause, authorization to operate shall continue beyond the expiration date to the point of Permit modification, reissuance, or revocation.
[391-3-1-.03(10)(e)3(iii)]

8.6 Transfer of Ownership or Operation

- 8.6.1 This Permit is not transferable by the Permittee. Future owners and operators shall obtain a new Permit from the Director. The new Permit may be processed as an administrative amendment if no other change in this Permit is necessary, and provided that a written agreement containing a specific date for transfer of Permit responsibility coverage and liability between the current and new Permittee has been submitted to the Division at least thirty (30) days in advance of the transfer.
[391-3-1-.03(4)]

8.7 Property Rights

- 8.7.1 This Permit shall not convey property rights of any sort, or any exclusive privileges.
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(6)(iv)]

8.8 Submissions

- 8.8.1 Reports, test data, monitoring data, notifications, annual certifications, and requests for revision and renewal shall be submitted to:

**Georgia Department of Natural Resources
Environmental Protection Division
Air Protection Branch
Atlanta Tradeport, Suite 120
4244 International Parkway
Atlanta, Georgia 30354-3908**

- 8.8.2 Any records, compliance certifications, and monitoring data required by the provisions in this Permit to be submitted to the EPA shall be sent to:

**Air and EPCRA Enforcement Branch – U. S. EPA Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Georgia 30303-3104**

- 8.8.3 Any application form, report, or compliance certification submitted pursuant to this Permit shall contain a certification by a responsible official of its truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
[391-3-1-.03(10)(c)2, 40 CFR 70.5(d) and 40 CFR 70.6(c)(1)]

- 8.8.4 Unless otherwise specified, all submissions under this permit shall be submitted to the Division only.

8.9 Duty to Provide Information

- 8.9.1 The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the Permit application, shall promptly submit such supplementary facts or corrected information to the Division.
[391-3-1-.03(10)(c)5]

- 8.9.2 The Permittee shall furnish to the Division, in writing, information that the Division may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the Permit, or to determine compliance with the Permit. Upon request, the Permittee shall also furnish to the Division copies of records that the Permittee is required to keep by this Permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the EPA, if necessary, along with a claim of confidentiality.
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(6)(v)]

8.10 Modifications

- 8.10.1 Prior to any source commencing a modification as defined in 391-3-1-.01(pp) that may result in air pollution and not exempted by 391-3-1-.03(6), the Permittee shall submit a Permit application to the Division. The application shall be submitted sufficiently in advance of any critical date involved to allow adequate time for review, discussion, or revision of plans, if necessary. Such application shall include, but not be limited to, information describing the precise nature of the change, modifications to any emission control system, production capacity of the plant before and after the change, and the anticipated completion date of the change. The application shall be in the form of a Georgia air quality Permit application to construct or modify (otherwise known as a SIP application) and shall be submitted on forms supplied by the Division, unless otherwise notified by the Division.
[391-3-1-.03(1) through (8)]

8.11 Permit Revision, Revocation, Reopening and Termination

- 8.11.1 This Permit may be revised, revoked, reopened and reissued, or terminated for cause by the Director. The Permit will be reopened for cause and revised accordingly under the following circumstances:
[391-3-1-.03(10)(d)1(i)]
- a. If additional applicable requirements become applicable to the source and the remaining Permit term is one (1) year or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the Permit is due to expire;
[391-3-1-.03(10)(e)6(i)(I)]
 - b. If any additional applicable requirements of the Acid Rain Program become applicable to the source;
[391-3-1-.03(10)(e)6(i)(II)] (Acid Rain sources only)
 - c. The Director determines that the Permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Permit; or
[391-3-1-.03(10)(e)6(i)(III) and 40 CFR 70.7(f)(1)(iii)]
 - d. The Director determines that the Permit must be revised or revoked to assure compliance with the applicable requirements.
[391-3-1-.03(10)(e)6(i)(IV) and 40 CFR 70.7(f)(1)(iv)]
- 8.11.2 Proceedings to reopen and reissue a Permit shall follow the same procedures as applicable to initial Permit issuance and shall affect only those parts of the Permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable.
[391-3-1-.03(10)(e)6(ii)]

- 8.11.3 Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Director at least thirty (30) days in advance of the date the Permit is to be reopened, except that the Director may provide a shorter time period in the case of an emergency.
[391-3-1-.03(10)(e)6(iii)]
- 8.11.4 All Permit conditions remain in effect until such time as the Director takes final action. The filing of a request by the Permittee for any Permit revision, revocation, reissuance, or termination, or of a notification of planned changes or anticipated noncompliance, shall not stay any Permit condition.
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(6)(iii)]
- 8.11.5 A Permit revision shall not be required for changes that are explicitly authorized by the conditions of this Permit.
- 8.11.6 A Permit revision shall not be required for changes that are part of an approved economic incentive, marketable Permit, emission trading, or other similar program or process for change which is specifically provided for in this Permit.
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(8)]

8.12 Severability

- 8.12.1 Any condition or portion of this Permit which is challenged, becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this Permit.
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(5)]

8.13 Excess Emissions Due to an Emergency

- 8.13.1 An “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the Permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
[391-3-1-.03(10)(d)7 and 40 CFR 70.6(g)(1)]
- 8.13.2 An emergency shall constitute an affirmative defense to an action brought for noncompliance with the technology-based emission limitations if the Permittee demonstrates, through properly signed contemporaneous operating logs or other relevant evidence, that:
- a. An emergency occurred and the Permittee can identify the cause(s) of the emergency;
 - b. The Permitted facility was at the time of the emergency being properly operated;

- c. During the period of the emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards, or other requirements in the Permit; and
 - d. The Permittee promptly notified the Division and submitted written notice of the emergency to the Division within two (2) working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- 8.13.3 In an enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency shall have the burden of proof.
[391-3-1-.03(10)(d)7 and 40 CFR 70.6(g)(4)]
- 8.13.4 The emergency conditions listed above are in addition to any emergency or upset provisions contained in any applicable requirement.
[391-3-1-.03(10)(d)7 and 40 CFR 70.6(g)(5)]

8.14 Compliance Requirements

8.14.1 Compliance Certification

The Permittee shall provide written certification to the Division and to the EPA, at least annually, of compliance with the conditions of this Permit. The annual written certification shall be postmarked no later than February 28 of each year and shall be submitted to the Division and to the EPA. The certification shall include, but not be limited to, the following elements:

[391-3-1-.03(10)(d)3 and 40 CFR 70.6(c)(5)]

- a. The identification of each term or condition of the Permit that is the basis of the certification;
- b. The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent, based on the method or means designated in paragraph c below. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred;
- c. The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period;
- d. Any other information that must be included to comply with section 113(c)(2) of the Act, which prohibits knowingly making a false certification or omitting material information; and

- e. Any additional requirements specified by the Division.

8.14.2 Inspection and Entry

- a. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow authorized representatives of the Division to perform the following:
[391-3-1-.03(10)(d)3 and 40 CFR 70.6(c)(2)]
 - i. Enter upon the Permittee's premises where a Part 70 source is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this Permit;
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this Permit; and
 - iv. Sample or monitor any substances or parameters at any location during operating hours for the purpose of assuring Permit compliance or compliance with applicable requirements as authorized by the Georgia Air Quality Act.
- b. No person shall obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for Permit revocation and assessment of civil penalties.
[391-3-1-.07 and 40 CFR 70.11(a)(3)(i)]

8.14.3 Schedule of Compliance

- a. For applicable requirements with which the Permittee is in compliance, the Permittee shall continue to comply with those requirements.
[391-3-1-.03(10)(e)2 and 40 CFR 70.5(c)(8)(iii)(A)]
- b. For applicable requirements that become effective during the Permit term, the Permittee shall meet such requirements on a timely basis unless a more detailed schedule is expressly required by the applicable requirement.
[391-3-1-.03(10)(c)2 and 40 CFR 70.5(c)(8)(iii)(B)]
- c. Any schedule of compliance for applicable requirements with which the source is not in compliance at the time of Permit issuance shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based.
[391-3-1-.03(10)(c)2 and 40 CFR 70.5(c)(8)(iii)(C)]

8.14.4 Excess Emissions

- a. Excess emissions resulting from startup, shutdown, or malfunction of any source which occur though ordinary diligence is employed shall be allowed provided that:
[391-3-1-.02(2)(a)7(i)]

- i. The best operational practices to minimize emissions are adhered to;
 - ii. All associated air pollution control equipment is operated in a manner consistent with good air pollution control practice for minimizing emissions; and
 - iii. The duration of excess emissions is minimized.
- b. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction are prohibited and are violations of Chapter 391-3-1 of the Georgia Rules for Air Quality Control.
[391-3-1-.02(2)(a)7(ii)]
- c. The provisions of this condition and Georgia Rule 391-3-1-.02(2)(a)7 shall apply only to those sources which are not subject to any requirement under Georgia Rule 391-3-1-.02(8) – New Source Performance Standards or any requirement of 40 CFR, Part 60, as amended concerning New Source Performance Standards.
[391-3-1-.02(2)(a)7(iii)]

8.15 Circumvention

8.15.1 State Only Enforceable Condition.

The Permittee shall not build, erect, install, or use any article, machine, equipment or process the use of which conceals an emission which would otherwise constitute a violation of an applicable emission standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of the pollutants in the gases discharged into the atmosphere.

[391-3-1-.03(2)(c)]

8.16 Permit Shield

8.16.1 Compliance with the terms of this Permit shall be deemed compliance with all applicable requirements as of the date of Permit issuance provided that all applicable requirements are included and specifically identified in the Permit.

[391-3-1-.03(10)(d)6]

8.16.2 Any Permit condition identified as “State only enforceable” does not have a Permit shield.

8.17 Operational Practices

8.17.1 At all times, including periods of startup, shutdown, and malfunction, the Permittee shall maintain and operate the source, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on any information available to the Division that may include, but is not limited to, monitoring results, observations of the opacity or other characteristics of

emissions, review of operating and maintenance procedures or records, and inspection or surveillance of the source.

[391-3-1-.02(2)(a)10]

- 8.17.2 No person owning, leasing, or controlling, the operation of any air contaminant sources shall willfully, negligently or through failure to provide necessary equipment or facilities or to take necessary precautions, cause, permit, or allow the emission from said air contamination source or sources, of such quantities of air contaminants as will cause, or tend to cause, by themselves, or in conjunction with other air contaminants, a condition of air pollution in quantities or characteristics or of a duration which is injurious or which unreasonably interferes with the enjoyment of life or use of property in such area of the State as is affected thereby. Complying with Georgia's Rules for Air Quality Control Chapter 391-3-1 and Conditions in this Permit, shall in no way exempt a person from this provision.

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

8.18 Visible Emissions

- 8.18.1 Except as may be provided in other provisions of this Permit, the Permittee shall not cause, let, suffer, permit or allow emissions from any air contaminant source the opacity of which is equal to or greater than forty (40) percent.

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

8.19 Fuel-burning Equipment

- 8.19.1 The Permittee shall not cause, let, suffer, permit, or allow the emission of fly ash and/or other particulate matter from any fuel-burning equipment with rated heat input capacity of less than 10 million Btu per hour, in operation or under construction on or before January 1, 1972 in amounts equal to or exceeding 0.7 pounds per million BTU heat input.

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

- 8.19.2 The Permittee shall not cause, let, suffer, permit, or allow the emission of fly ash and/or other particulate matter from any fuel-burning equipment with rated heat input capacity of less than 10 million Btu per hour, constructed after January 1, 1972 in amounts equal to or exceeding 0.5 pounds per million BTU heat input.

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

- 8.19.3 The Permittee shall not cause, let, suffer, permit, or allow the emission from any fuel-burning equipment constructed or extensively modified after January 1, 1972, visible emissions the opacity of which is equal to or greater than twenty (20) percent except for one six minute period per hour of not more than twenty-seven (27) percent opacity.

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

8.20 Sulfur Dioxide

- 8.20.1 Except as may be specified in other provisions of this Permit, the Permittee shall not burn fuel containing more than 2.5 percent sulfur, by weight, in any fuel burning source that has a heat input capacity below 100 million Btu's per hour.

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

8.21 Particulate Emissions

- 8.21.1 Except as may be specified in other provisions of this Permit, the Permittee shall not cause, let, permit, suffer, or allow the rate of emission from any source, particulate matter in total quantities equal to or exceeding the allowable rates shown below. Equipment in operation, or under construction contract, on or before July 2, 1968, shall be considered existing equipment. All other equipment put in operation or extensively altered after said date is to be considered new equipment.

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

- a. The following equations shall be used to calculate the allowable rates of emission from new equipment:

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

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

- b. The following equation shall be used to calculate the allowable rates of emission from existing equipment:

$$E = 4.1P^{0.67}$$

In the above equations, E = emission rate in pounds per hour, and
P = process input weight rate in tons per hour.

8.22 Fugitive Dust

- 8.22.1 Except as may be specified in other provisions of this Permit, the Permittee shall take all reasonable precautions to prevent dust from any operation, process, handling, transportation or storage facility from becoming airborne. Reasonable precautions that could be taken to prevent dust from becoming airborne include, but are not limited to, the following:

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

- 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.

8.22.2 The opacity from any fugitive dust source shall not equal or exceed 20 percent.

8.23 Solvent Metal Cleaning

8.23.1 Except as may be specified in other provisions of this Permit, the Permittee shall not cause, suffer, allow, or permit the operation of a cold cleaner degreaser unless the following requirements for control of emissions of the volatile organic compounds are satisfied:
[391-3-1-.02(2)(ff)1]

- a. The degreaser shall be equipped with a cover to prevent escape of VOC during periods of non-use,
- b. The degreaser shall be equipped with a device to drain cleaned parts before removal from the unit,
- c. If the solvent volatility is 0.60 psi or greater measured at 100 °F, or if the solvent is heated above 120 °F, then one of the following control devices must be used:
 - i. The degreaser shall be equipped with a freeboard that gives a freeboard ratio of 0.7 or greater, or
 - ii. The degreaser shall be equipped with a water cover (solvent must be insoluble in and heavier than water), or
 - iii. The degreaser shall be equipped with a system of equivalent control, including but not limited to, a refrigerated chiller or carbon adsorption system.
- d. Any solvent spray utilized by the degreaser must be in the form of a solid, fluid stream (not a fine, atomized or shower type spray) and at a pressure which will not cause excessive splashing, and
- e. All waste solvent from the degreaser shall be stored in covered containers and shall not be disposed of by such a method as to allow excessive evaporation into the atmosphere.

8.24 Incinerators

8.24.1 Except as specified in the section dealing with conical burners, no person shall cause, let, suffer, permit, or allow the emissions of fly ash and/or other particulate matter from any incinerator, in amounts equal to or exceeding the following:
[391-3-1-.02(2)(c)1-4]

- a. Units with charging rates of 500 pounds per hour or less of combustible waste, including water, shall not emit fly ash and/or particulate matter in quantities exceeding 1.0 pound per hour.

- b. Units with charging rates in excess of 500 pounds per hour of combustible waste, including water, shall not emit fly ash and/or particulate matter in excess of 0.20 pounds per 100 pounds of charge.
- 8.24.2 No person shall cause, let, suffer, permit, or allow from any incinerator, visible emissions the opacity of which is equal to or greater than twenty (20) percent except for one six minute period per hour of not more than twenty-seven (27) percent opacity.
- 8.24.3 No person shall cause or allow particles to be emitted from an incinerator which are individually large enough to be visible to the unaided eye.
- 8.24.4 No person shall operate an existing incinerator unless:
- a. It is a multiple chamber incinerator;
 - b. It is equipped with an auxiliary burner in the primary chamber for the purpose of creating a pre-ignition temperature of 800°F; and
 - c. It has a secondary burner to control smoke and/or odors and maintain a temperature of at least 1500°F in the secondary chamber.

8.25 Volatile Organic Liquid Handling and Storage

- 8.25.1 The Permittee shall ensure that each storage tank subject to the requirements of Rule 391-3-1-.02(2)(vv) "Volatile Organic Liquid Handling and Storage" is equipped with submerged fill pipes. For the purposes of this condition and the permit, a submerged fill pipe is defined as any fill pipe with a discharge opening which is within six inches of the tank bottom.
[391-3-1-.02(2)(vv)(1)]

8.26 Use of Any Credible Evidence or Information

- 8.26.1 Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit, for the purpose of submission of compliance certifications or establishing whether or not a person has violated or is in violation of any emissions limitation or standard, nothing in this permit or any Emission Limitation or Standard to which it pertains, shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.
[391-3-1-.02(3)(a)]

Attachments

- A. List of Standard Abbreviations and List of Permit Specific Abbreviations
- B. Insignificant Activities Checklist, Insignificant Activities Based on Emission Levels and Generic Emission Groups
- C. List of References

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Title V Permit

ATTACHMENT B

NOTE: Attachment B contains information regarding insignificant emission units/activities and groups of generic emission units/activities in existence at the facility at the time of Permit issuance. Future modifications or additions of insignificant emission units/activities and equipment that are part of generic emissions groups may not necessarily cause this attachment to be updated.

INSIGNIFICANT ACTIVITIES CHECKLIST

Category	Description of Insignificant Activity/Unit	Quantity
Mobile Sources	1. Cleaning and sweeping of streets and paved surfaces	2
Combustion Equipment	1. Fire fighting and similar safety equipment used to train fire fighters or other emergency personnel.	
	2. Small incinerators that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act and are not considered a "designated facility" as specified in 40 CFR 60.32e of the Federal emissions guidelines for Hospital/Medical/Infectious Waste Incinerators, that are operating as follows: i) Less than 8 million BTU/hr heat input, firing types 0, 1, 2, and/or 3 waste. ii) Less than 8 million BTU/hr heat input with no more than 10% pathological (type 4) waste by weight combined with types 0, 1, 2, and/or 3 waste. iii) Less than 4 million BTU/hr heat input firing type 4 waste. (Refer to 391-3-1-.03(10)(g)2.(ii) for descriptions of waste types)	
	3. Open burning in compliance with Georgia Rule 391-3-1-.02 (5).	1
	4. Stationary engines burning: i) Natural gas, LPG, gasoline, dual fuel, or diesel fuel which are used exclusively as emergency generators shall not exceed 500 hours per year or 200 hours per year if subject to Georgia Rule 391-3-1-.02(2)(mmm).5 ii) Natural gas, LPG, and/or diesel fueled generators used for emergency, peaking, and/or standby power generation, where the combined peaking and standby power generation do not exceed 200 hours per year. iii) Natural gas, LPG, and/or diesel fuel used for other purposes, provided that the output of each engine does not exceed 400 horsepower and that no individual engine operates for more than 2,000 hours per year. iv) Gasoline used for other purposes, provided that the output of each engine does not exceed 100 horsepower and that no individual engine operates for more than 500 hours per year.	2
		0
		1
Trade Operations	1. Brazing, soldering, and welding equipment, and cutting torches related to manufacturing and construction activities whose emissions of hazardous air pollutants (HAPs) fall below 1,000 pounds per year.	23
Maintenance, Cleaning, and Housekeeping	1. Blast-cleaning equipment using a suspension of abrasive in water and any exhaust system (or collector) serving them exclusively.	
	2. Portable blast-cleaning equipment.	6
	3. Non-Perchloroethylene Dry-cleaning equipment with a capacity of 100 pounds per hour or less of clothes.	
	4. Cold cleaners having an air/vapor interface of not more than 10 square feet and that do not use a halogenated solvent.	3
	5. Non-routine clean out of tanks and equipment for the purposes of worker entry or in preparation for maintenance or decommissioning.	4
	6. Devices used exclusively for cleaning metal parts or surfaces by burning off residual amounts of paint, varnish, or other foreign material, provided that such devices are equipped with afterburners.	
	7. Cleaning operations: Alkaline phosphate cleaners and associated cleaners and burners.	

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INSIGNIFICANT ACTIVITIES CHECKLIST

Category	Description of Insignificant Activity/Unit	Quantity
Laboratories and Testing	1. Laboratory fume hoods and vents associated with bench-scale laboratory equipment used for physical or chemical analysis.	21
	2. Research and development facilities, quality control testing facilities and/or small pilot projects, where combined daily emissions from all operations are not individually major or are support facilities not making significant contributions to the product of a collocated major manufacturing facility.	5
Pollution Control	1. Sanitary waste water collection and treatment systems, except incineration equipment or equipment subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	29
	2. On site soil or groundwater decontamination units that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	
	3. Bioremediation operations units that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	
	4. Landfills that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	1
Industrial Operations	1. Concrete block and brick plants, concrete products plants, and ready mix concrete plants producing less than 125,000 tons per year.	
	2. Any of the following processes or process equipment which are electrically heated or which fire natural gas, LPG or distillate fuel oil at a maximum total heat input rate of not more than 5 million BTU's per hour: <ul style="list-style-type: none"> i) Furnaces for heat treating glass or metals, the use of which do not involve molten materials or oil-coated parts. ii) Porcelain enameling furnaces or porcelain enameling drying ovens. iii) Kilns for firing ceramic ware. iv) Crucible furnaces, pot furnaces, or induction melting and holding furnaces with a capacity of 1,000 pounds or less each, in which sweating or distilling is not conducted and in which fluxing is not conducted utilizing free chlorine, chloride or fluoride derivatives, or ammonium compounds. v) Bakery ovens and confection cookers. 	
	3. Carving, cutting, routing, turning, drilling, machining, sawing, surface grinding, sanding, planing, buffing, shot blasting, shot peening, or polishing; ceramics, glass, leather, metals, plastics, rubber, concrete, paper stock or wood, also including roll grinding and ground wood pulping stone sharpening, provided that: <ul style="list-style-type: none"> i) Activity is performed indoors; & ii) No significant fugitive particulate emissions enter the environment; & iii) No visible emissions enter the outdoor atmosphere. 	3
	4. Photographic process equipment by which an image is reproduced upon material sensitized to radiant energy (e.g., blueprint activity, photographic developing and microfiche).	
	5. Grain, food, or mineral extrusion processes	
	6. Equipment used exclusively for sintering of glass or metals, but not including equipment used for sintering metal-bearing ores, metal scale, clay, fly ash, or metal compounds.	
	7. Equipment for the mining and screening of uncrushed native sand and gravel.	
	8. Ozonization process or process equipment.	3
	9. Electrostatic powder coating booths with an appropriately designed and operated particulate control system.	
	10. Activities involving the application of hot melt adhesives where VOC emissions are less than 5 tons per year and HAP emissions are less than 1,000 pounds per year.	
	11. Equipment used exclusively for the mixing and blending water-based adhesives and coatings at ambient temperatures.	
	12. Equipment used for compression, molding and injection of plastics where VOC emissions are less than 5 tons per year and HAP emissions are less than 1,000 pounds per year.	
	13. Ultraviolet curing processes where VOC emissions are less than 5 tons per year and HAP emissions are less than 1,000 pounds per year.	

Title V Permit

INSIGNIFICANT ACTIVITIES CHECKLIST

Category	Description of Insignificant Activity/Unit	Quantity
Storage Tanks and Equipment	1. All petroleum liquid storage tanks storing a liquid with a true vapor pressure of equal to or less than 0.50 psia as stored.	7
	2. All petroleum liquid storage tanks with a capacity of less than 40,000 gallons storing a liquid with a true vapor pressure of equal to or less than 2.0 psia as stored that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	
	3. All petroleum liquid storage tanks with a capacity of less than 10,000 gallons storing a petroleum liquid.	4
	4. All pressurized vessels designed to operate in excess of 30 psig storing petroleum fuels that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	15
	5. Gasoline storage and handling equipment at loading facilities handling less than 20,000 gallons per day or at vehicle dispensing facilities that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	4
	6. Portable drums, barrels, and totes provided that the volume of each container does not exceed 550 gallons.	300
	7. All chemical storage tanks used to store a chemical with a true vapor pressure of less than or equal to 10 millimeters of mercury (0.19 psia).	22

INSIGNIFICANT ACTIVITIES BASED ON EMISSION LEVELS

Description of Emission Units / Activities	Quantity
Plant #2 Slurry Makedown Process High Shear Mixer, (wet process)	1
Plant and Twiggs Degritt Surge Tanks	2
Plant (4), Wilkinson (5) and Twiggs (5) Sand Filters	14
Plant (3), Wilkinson (2) and Twiggs (3) Screens (wet process screens)	8
Wilkinson (2) and Twiggs (4) Blunging and Degritting Storage Tanks	6
Wilkinson (2) and Twiggs (4) Tailing Ponds	6
Wilkinson County (Degritting Plant) Feed Hopper (S900)	1
Twiggs County (Degritting Plant) Blunger (S952)	1
Plant Vacuum Filter Drums	9
Plant Vacuum Pumps for Filter Drums	4
Wilkinson County (Degritting Plant) Belt Conveyor (S901)	1
Wilkinson County (Degritting Plant) Blunger (S902)	1
Ink Clay – 1.4 mmBtu/hr, natural gas and propane (S850)	1
Lime Bin – pH adjustment for wastewater treatment plant (S-802)	1

ATTACHMENT B (continued)

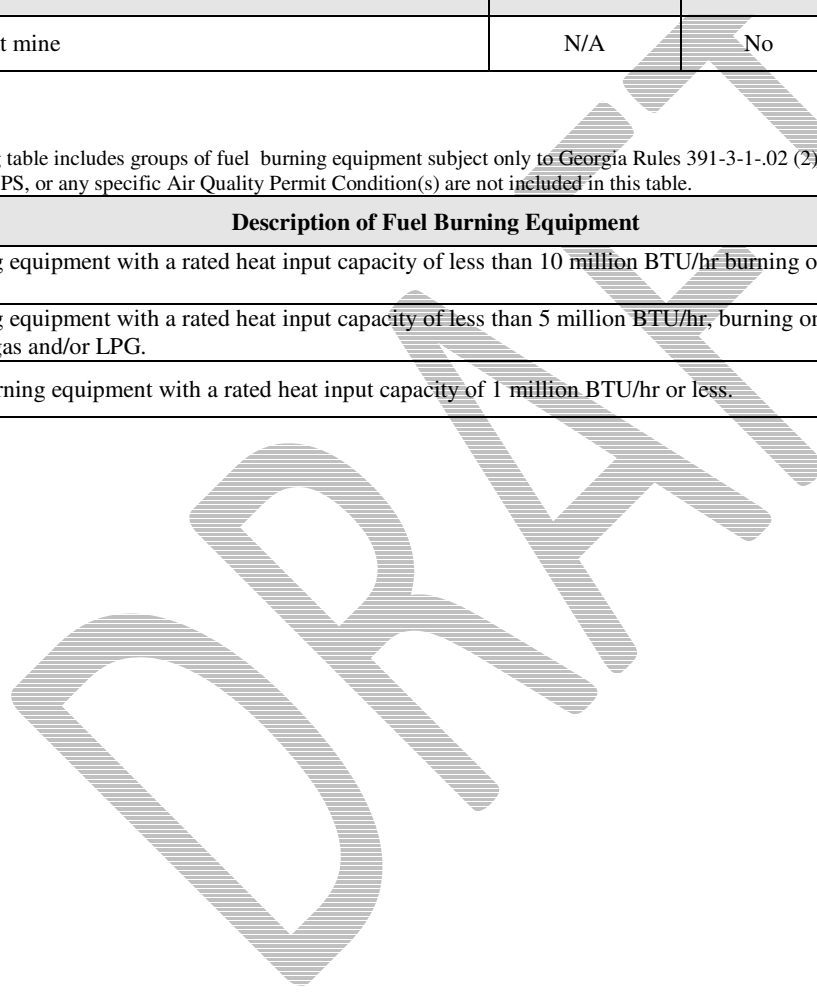
GENERIC EMISSION GROUPS

Emission units/activities appearing in the following table are subject only to one or more of Georgia Rules 391-3-1-.02 (2) (b), (e) &/or (n). Potential emissions of particulate matter, from these sources based on TSP, are less than 25 tons per year per process line or unit in each group. Any emissions unit subject to a NESHAP, NSPS, or any specific Air Quality Permit Condition(s) are not included in this table.

Description of Emissions Units / Activities	Number of Units (if appropriate)	Applicable Rules		
		Opacity Rule (b)	PM from Mfg Process Rule (e)	Fugitive Dust Rule (n)
Haul roads at mine	N/A	No	No	Yes

The following table includes groups of fuel burning equipment subject only to Georgia Rules 391-3-1-.02 (2) (b) & (d). Any emissions unit subject to a NESHAP, NSPS, or any specific Air Quality Permit Condition(s) are not included in this table.

Description of Fuel Burning Equipment	Number of Units
Fuel burning equipment with a rated heat input capacity of less than 10 million BTU/hr burning only natural gas and/or LPG.	0
Fuel burning equipment with a rated heat input capacity of less than 5 million BTU/hr, burning only distillate fuel oil, natural gas and/or LPG.	0
Any fuel burning equipment with a rated heat input capacity of 1 million BTU/hr or less.	26



ATTACHMENT C

LIST OF REFERENCES

1. The Georgia Rules for Air Quality Control Chapter 391-3-1. All Rules cited herein which begin with 391-3-1 are State Air Quality Rules.
2. Title 40 of the Code of Federal Regulations; specifically 40 CFR Parts 50, 51, 52, 60, 61, 63, 64, 68, 70, 72, 73, 75, 76 and 82. All rules cited with these parts are Federal Air Quality Rules.
3. ***Georgia Department of Natural Resources, Environmental Protection Division, Air Protection Branch, Procedures for Testing and Monitoring Sources of Air Pollutants.***
4. ***Georgia Department of Natural Resources, Environmental Protection Division, Air Protection Branch, Procedures for Calculating Air Permit Fees.***
5. Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume I: Stationary Point and Area Sources. This information may be obtained from EPA's TTN web site at www.epa.gov/ttn/chief/ap42.html.
6. The latest properly functioning version of EPA's **TANKS** emission estimation software. The software may be obtained from EPA's TTN web site at www.epa.gov/ttn/chief/tanks.html.
7. The Clean Air Act (42 U.S.C. 7401 et seq).
8. White Paper for Streamlined Development of Part 70 Permit Applications, July 10, 1995 (White Paper #1).
9. White Paper Number 2 for Improved Implementation of the Part 70 Operating Permits Program, March 5, 1996 (White Paper #2).