

# Part 70 Operating Permit Amendment

Permit Amendment No.: 1455-289-0001-V-02-2      Effective Date:

**Facility Name:**            **Huber Engineered Materials – Macon Facility**

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

**Mailing Address:**      822 Huber Road  
Macon, Georgia 31217

**Parent/Holding  
Company:**            Huber Engineered Materials

**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 an amendment to the Part 70 Operating Permit for:

Removing two turbine generators and a boiler from the permit, restricting the operation hours of Generators #1 & #2, which will decrease nitrogen oxides emissions by approximately 12.87 tons. Also, this amendment allows use of propane as a permitted fuel, revises emissions estimation methodologies, updates the provisions relating to Compliance Assurance Monitoring (CAM), and the facility emission units list. Furthermore, this amendment reflects the name change to Huber Engineered Materials – Macon Facility.

This Permit Amendment is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted and in effect under that Act, or any other condition of this Permit Amendment and Permit **No. 1455-289-0001-V-02-0**. Unless modified or revoked, this Permit Amendment expires simultaneously with Part 70 Permit **No. 1455-289-0001-V-02-0**.

This Permit Amendment may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in Application No. TV-17939 dated January 31, 2008; any other applications upon which this Permit Amendment or Permit **No. 1455-289-0001-V-02-0** are based; supporting data entered therein or attached thereto; or any subsequent submittal or supporting data; or for any alterations affecting the emissions from this source.

This Permit Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached **12** pages.

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Director  
Environmental Protection Division

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**PART 1.0 FACILITY DESCRIPTION**

**1.3 Process Description of Modification**

None applicable.

**PART 2.0 REQUIREMENTS PERTAINING TO THE ENTIRE FACILITY**

**2.1 Facility Wide Emission Caps and Operating Limits**

- 2.1.1 The Permittee shall 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*. Furthermore,  
[40 CFR 52.21 Avoidance]
- a. The Permittee shall 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.
  - b. The Permittee shall not discharge or cause the discharge into the atmosphere from the entire facility sulfur dioxide (SO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) emissions in amounts equal to or in excess of 250 tons during any 12 consecutive months.

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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 Updated 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	40 CFR 52.21 Avoidance 391-3-1-.02(2)(b) 391-3-1-.02(2)(d) 391-3-1-.02(2)(g)	2.1.1 3.4.2 3.4.3 3.4.4 5.2.6, 5.2.8, 5.2.9 5.2.10, 6.1.7, 6.2.2 6.2.3, 6.2.4, 6.2.6	None	None
S-695	Generator #1	40 CFR 52.21 Avoidance 391-3-1-.02(2)(b) 391-3-1-.02(2)(g)	2.1.1 3.4.2 3.4.4 5.2.6, 5.2.8, 5.2.9 5.2.10, 6.1.7, 6.2.2 6.2.3, 6.2.4, 6.2.5	None	None
S-696	Generator #2	40 CFR 52.21 Avoidance 391-3-1-.02(2)(b) 391-3-1-.02(2)(g)	2.1.1 3.4.2 3.4.4 5.2.6, 5.2.8, 5.2.9 5.2.10, 6.1.7, 6.2.2 6.2.3, 6.2.4, 6.2.5	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	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 5.2.4 5.2.9, 5.2.10, 6.1.7 6.2.2, 6.2.3, 6.2.4 6.2.6	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)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3, 6.1.7	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)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3, 6.1.7	S-649	Baghouse
S-730	#2 Spray Dryer	40 CFR 52.21 Avoidance 40 CFR 63 NESHAP Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(g) 40 CFR 64	2.1.1, 3.2.1 2.1.2 3.4.1 3.4.2 3.4.4 5.2.11, 5.2.13 5.2.2, 5.2.3, 5.2.4	S-735 S-736	Baghouse Scrubber

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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
			5.2.9, 5.2.10, 6.1.7 6.2.2, 6.2.3, 6.2.4 6.2.6, 6.2.8, 6.2.9		
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	3.3.2 3.4.1 3.4.2 3.4.4 5.2.11, 5.2.12 5.2.1, 5.2.4, 5.2.9 5.2.10, 6.1.7, 6.2.2 6.2.3, 6.2.4, 6.2.6	S-689	Baghouse
S-760	Calciner #1	40 CFR 52.21 Avoidance 40 CFR 63 NESHAP Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(g) 40 CFR 64	3.2.1 2.1.2 3.4.1 3.4.2 3.4.4 5.2.11, 5.2.13 5.2.2, 5.2.3, 5.2.4 6.1.7, 6.2.8, 6.2.9	S-764 S-767	Baghouse
S-605	Soda Ash Bin	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b)	3.3.1 3.4.1 3.4.2	S-607	Bin Vent
S-628	One-ton Bagger	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b)	3.3.1 3.4.1 3.4.2	S-779	Bag Filter Receiver
S-626	#50 Vacuum Packer (Ink Clay)	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b)	3.3.1 3.4.1 3.4.2	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	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	S-648	Bag Filter Receiver
S-802	Lime Bin	391-3-1-.02(2)(p)1 391-3-1-.02(2)(b)	3.4.1 3.4.2	S-803	Bin Vent
S-805	Bagger #2	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	S-812	Bin Vent
S-639	Impact Mill Loadout Bin	40 CFR 52.21 Avoidance	3.2.1	S-640	Bin Vent

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ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
		391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 40 CFR 64	3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7		
S-656	One-ton Bagger #6	NSPS OOO 391-3-1-.02(2)(p)1	3.3.1 3.4.1	S-658	Bin Vent
S-657	One-ton Bagger #6 Bin	NSPS OOO 391-3-1-.02(2)(p)1	3.3.1 3.4.1	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)	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)	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)1 391-3-1-.02(2)(b)	3.2.1 3.4.1 3.4.2	S-665	Bin Vent
S-667	Silo #7	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b)	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)	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)	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)	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)	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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	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)	3.2.1 3.4.1 3.4.2	S-674	Bin Vent

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S-691	#4 Spray Dryer Bucket Elevator	NSPS OOO 391-3-1-.02(2)(p)1	3.3.1 3.4.1	S-723	None
S-693	Railcar Loadout Bin	NSPS OOO 391-3-1-.02(2)(p)1	3.3.1 3.4.1	S-725	Bin Vent
S-701	Silo #20	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3, 6.1.7	S-703	Baghouse
S-704	Silo #21	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3, 6.1.7	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)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3, 6.1.7	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)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3, 6.1.7	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)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3, 6.1.7	S-719	Baghouse
S-720	Silo #25	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1	3.2.1 3.4.1	S-725	None
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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	S-725	Baghouse
S-925	Silo #25 Railcar Loading Spout	40 CFR 52.21 Avoidance	3.2.1	S-725	Baghouse

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ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
		391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 40 CFR 64	3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7		
S-722	Silo #26	NSPS OOO 391-3-1-.02(2)(p)1	3.3.1 3.4.1	S-723	Bin Vent
S-861	Conveyor Belt to Bagger #10A	NSPS OOO 391-3-1-.02(2)(p)1	3.3.1 3.4.1	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	S-866	Baghouse
S-881	One-ton Surge Bin #10A	NSPS OOO 391-3-1-.02(2)(p)1	3.3.1 3.4.1	S-880	Bin Vent
S-882	One-ton Surge Bin Bagger #10A	NSPS OOO 391-3-1-.02(2)(p)1	3.3.1 3.4.1	S-880	Bin Vent
S-886	One-ton Surge Bin #10B	NSPS OOO 391-3-1-.02(2)(p)1	3.3.1 3.4.1	S-885	Bin Vent
S-887	One-ton Surge Bin Bagger #10B	NSPS OOO 391-3-1-.02(2)(p)1	3.3.1 3.4.1	S-885	Bin Vent
S-750	Calciner Unground Feed Surge Bin	40 CFR 52.21 Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b)	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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	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) 40 CFR 64	3.2.1 3.3.1, 4.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	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)	3.2.1 3.4.1 3.4.2 5.2.2, 5.2.3, 6.1.7	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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	S-770	Baghouse
S-771	Calcine Post-grinder #4	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 40 CFR 64	3.3.1 3.4.1 3.4.2 5.2.11, 5.2.13	S-775	Baghouse

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			5.2.2, 5.2.3, 6.1.7		
S-772	Calcine Post-grinder #5	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 40 CFR 64	3.3.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	S-775	Baghouse
S-773	Calcine Post-grinder #6	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 40 CFR 64	3.3.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	S-775	Baghouse
S-774	Calcine Post-grinder #7	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 40 CFR 64	3.3.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	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)	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)	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)	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)	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 40 CFR 64	3.3.1 3.4.1 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	S-791	Baghouse
S-789	Calcine One-ton Bagger #7	NSPS OOO 391-3-1-.02(2)(p)1	3.3.1 3.4.1	S-911	Baghouse
S-792	Calcine One-ton Bagger #9	NSPS OOO 391-3-1-.02(2)(p)1	3.3.1 3.4.1	S-827	Baghouse
S-793	50# Bag Vacuum Packer #8	NSPS OOO 391-3-1-.02(2)(p)1	3.3.1 3.4.1 5.2.2, 5.2.3, 6.1.7	S-993	Baghouse
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)	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) 40 CFR 64	3.2.1 3.4.1 3.4.2 5.2.11, 5.2.13 5.2.2, 5.2.3, 6.1.7	S-796	Baghouse
S-950	Twiggs County (Degritting Plant) - Feed Hopper	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(6)(n)	3.3.1 3.4.1 3.4.5	None	None
S-951	Twiggs County (Degritting Plant) - Belt Conveyor	NSPS OOO 391-3-1-.02(2)(p)1 391-3-1-.02(6)(n)	3.3.1 3.4.1 3.4.5	None	None

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

**PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection)**

**5.2 Specific Monitoring Requirements**

- 5.2.7 The Permittee shall install, calibrate, maintain, and operate fuel oil consumption meters on each internal combustion (IC) engine, calciner, boiler and dryer 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. Fuel oil consumption records shall be updated by the 15<sup>th</sup> day of each month.  
[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 continuous monitoring systems (or devices) to record the accumulation of hours of operation on each of fuel oil, natural gas and propane of each internal combustion engine. 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)]
  
- 5.2.9 The Permittee shall once every twelve calendar months determine the nitrogen oxides emissions from each of the emission units referred to in Condition 5.2.7 using the emission factor(s) established in accordance with Condition 4.2.4. Records of nitrogen oxides monitoring shall be kept in a form suitable for inspection or submittal for a period of five (5) years. The records shall at a minimum contain all excursions, and all measurements of concentration of nitrogen oxides and oxygen.
  
- 5.2.10 The Permittee shall install, calibrate, maintain, and operate a natural gas and/or propane consumption meters on boilers, and dryers. 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 and update those records by the 15<sup>th</sup> day of each month.  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
  
- 5.2.11 The following pollutant specific emission unit(s) (PSEU) is/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)	
Bagger #2 (S-805)	
Bagger #2 Bin (S-804)	
Bagger #4 (2 Spout) (S-810)	
Bagger #4 Bin (S-811)	
Impact Mill Loadout Bin (S-639)	
Slurry Makedown Bin #1 (S-813)	

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Emission Unit	Pollutant
Slurry Makedown Bin #2 (S-814)	
Slurry Makedown Bin #4 (S-918)	
#2 Spray Dryer Conveyor Belt (S-732)	
Silo #20 (S-701)	
Silo #21 (S-704)	
Silo #22 (S-707)	
Silo #23 (S-713)	
Silo #24 (S-717)	
Silo #25 (S-720)	
Calciner Pre-grinder #1 (S-752)	
Calciner Pre-grinder #2 (S-753)	
Calciner Pre-grinder #3 (S-761)	
Calciner Pre-grind Surge Bin (S-757)	
Calciner Product Surge Bin (S-769)	
Calciner Post-grinder #4 (S-771)	
Calciner Post-grinder #5 (S-772)	
Calciner Post-grinder #6 (S-773)	
Calciner Post-grinder #7 (S-774)	
Calciner 1-ton Bagger Surge Bin (S-790)	
Calciner Bagger Feed Bin #5 (S-798)	

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]

- 5.2.13 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), Pneumatic Conveying Systems from Silos 6, 7, 8, 11 (S-910), Bagger #2 (S-805), Bagger #2 Bin (S-804), Bagger #4 (2 Spout) (S-810), Bagger #4 Bin (S-811), Impact Mill Loadout Bin (S-639), Slurry Makedown Bin #1 (S-813), Slurry Makedown Bin #2 (S-814), Slurry Makedown Bin #4 (S-918), #2 Spray Dryer Conveyor Belt (S-732), Silo #20 (S-701), Silo #21 (S-704), Silo #22 (S-707), Silo #23 (S-713), Silo #24 (S-717), Silo #25 (S-720), Calciner Pregrinder #1 (S-752), Calciner Pre-grinder #2 (S-753), Calciner Pre-grinder #3 (S-761), Calciner Pre-grind Surge Bin (S-757), Calciner Product Surge Bin (S-769), Calciner Post-grinder #4 (S-771), Calciner Post-grinder #5 (S-772), Calciner Post-grinder #6 (S-773), Calciner Post-grinder #7 (S-774), Calciner 1-ton Bagger Surge Bin (S-790), and Calciner Bagger Feed Bin #5 (S-798). [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)	Not Applicable.	Not Applicable.	Not Applicable.

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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
[64.3(b)(2)]			
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
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.

**PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS**

**6.2 Specific Record Keeping and Reporting Requirements**

6.2.2 The Permittee shall maintain separate monthly usage records of each type of the fuel used by the (boilers, dryers, and diesel powered generators). These records shall contain all data sufficient to determine compliance with Condition 2.1.1. All usage calculations 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)]

6.2.5 The Permittee shall use the following equation to calculate the amount of nitrogen oxides emitted from the fuel oil fired internal combustion (IC) engines listed in Table A and any new fuel oil fired IC engine added in accordance with Condition 7.1.1, 7.1.2, or 7.2.1:  
[391-3-1-.03(2)(c)]

$$NO_x \text{ (ton/month)} = \frac{\sum G_i H_i E F_i}{2000}$$

Where:  $G_i$  = Fuel oil firing capacity of IC engine ( $10^6$  BTU/hr)  
 $H_i$  = Monthly hours of operation for the IC engine (hrs/month); and  
 $E F_i$  = Most recent  $NO_x$  emission factor established in accordance with Condition 4.2.4 for fuel oil fired IC Engine (lb  $NO_x/10^6$  BTU).  
 Where  $i$  is the individual emission unit identifier.

**Table A**

Fuel Oil fired IC Engines			
Source Code	Emission Unit	Capacity Of unit ( $10^6$ BTU/hr)	Install Year
S-695	Generator #1	12.72	1987
S-696	Generator #2	12.72	1987

6.2.6 The Permittee shall use the following equation to calculate the amount of nitrogen oxides emitted from Calciners, Boilers, or Dryers and any new calciners, boilers or dryers added in accordance with Condition 7.1.1, 7.1.2, or 7.2.1:  
[391-3-1-.03(2)(c)]

$$NO_x \text{ (ton/month)} = \frac{\sum V_{gasi} E F_{gasi}}{2000} + \frac{\sum V_{oili} E F_{oili}}{2000} + \frac{\sum V_{propane_i} E F_{propane_i}}{2000}$$

Where:  $V_{gasi}$  = Monthly amount of natural gas consumed by the emission units (MMBTU/month);  
 $E F_{gasi}$  = Most recent  $NO_x$  emission factor established in accordance with Condition 4.2.4 for the emission units firing Natural Gas (lb  $NO_x/$  MMBTU);  
 $V_{oili}$  = Monthly amount of the fuel oil consumed by the emission units (MMBTU/month); and

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$EF_{oili}$  = Most recent  $NO_x$  emission factor established in accordance with Condition 4.2.4 for the emission units firing fuel oil (lb  $NO_x$ / MMBTU).

$V_{propane_i}$  = Monthly amount of the propane consumed by the emission units (MMBTU/month); and

$EF_{propane_i}$  = Most recent  $NO_x$  emission factor established in accordance with Condition 4.2.4 for the emission units firing propane (lb  $NO_x$ / MMBTU).

$V_{propi}$  = Monthly amount of propane consumed by the emission units (MMBtu/hr)

$EF_{propi}$  = AP-42 Emission Factor for propane (lb  $NO_x$ / MMBtu)

$HV_{propi}$  = Heating value of propane (MMBtu/Mgal)

Where  $i$  is the individual emission unit identifier.

- 6.2.7 The Permittee shall use the following equation to calculate the monthly amount of total sulfur dioxide emitted by the fuel-burning emission units listed in Table 3.1 or any added in accordance with Condition 7.1.1, 7.1.2, or 7.2.1:

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

$$SO_2 \text{ (ton/month)} = \frac{\sum 0.6V_{gasi}}{2000} + \frac{\sum 71V_{oili}}{2000} + \frac{\sum 0.018V_{propane_i}}{2000}$$

Where:  $V_{gasi}$  = Monthly amount of natural gas consumed by the emission units (MMscf/month);

$V_{oili}$  = Monthly amount of the No.2 Fuel Oil consumed by the emission units (MGal/month);

$V_{propi}$  = Monthly amount of propane consumed by the emission units (MGal/month);

0.6 =  $SO_2$  emission factor for natural gas (lb/MMscf); and

71 =  $SO_2$  emission factor for No. 2 fuel oil (lb/10<sup>3</sup>Gallon).

0.018 =  $SO_2$  emission factor for propane (lb/10<sup>3</sup> Gallon).

Where  $i$  is the individual emission unit identifier.

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Huber Engineered Materials – Macon Facility

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