PERMIT NO. 3295-087-0037-V-06-0 ISSUANCE DATE:



ENVIRONMENTAL PROTECTION DIVISION

Air Quality - Part 70 Operating Permit

Facility Name: BASF Corporation – Attapulgus Operations

Facility Address: 141 Engelhard Road

Attapulgus, GA 39815, Decatur County

Mailing Address: P.O. Box 220

Attapulgus, GA 39815

Parent/Holding Company: BASF Corporation Facility AIRS Number: 04-13-087-00037

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 a Fluid Cracking Catalyst (FCC) and Moving Bed Catalyst (MBC) manufacturing facility.

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 issuance 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 TV-717804 signed on March 31, 2023, 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 47 pages.



DRAFT

Jeffrey W. Cown, Director

Environmental Protection Division

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- B. Insignificant Activities Checklist, Insignificant Activities Based on Emission Levels and Generic Emission Groups
- C. List of References

PART 1.0 FACILITY DESCRIPTION

1.1 Site Determination

There are no other facilities which could possibly be contiguous or adjacent and under common control.

1.2 Previous and/or Other Names

Engelhard Corporation – Attapulgus Operations

1.3 Overall Facility Process Description

FCC Manufacturing

Kaolin "microspheres" (powder) are unloaded into Storage Silos (C023-C030, C034, C036, C038, C040, C044-C047, C053, C056-C059, C078, C079, C082, C086, C117, C118, C127, C129, C131, C132, C134, C136, D001, D003, D004, D019, D027-D040, D052, and D053). The microspheres are pneumatically transported via Transporters (C005, C032, C083, C122, C135, C137, and D002) to Make Down Tanks (C037 and D007) where they are slurried with caustic chemicals. The slurry is pumped to Zeolite Crystallization and Vacuum Filtration where the liquids are removed and pumped to Silicate Co-Products processes. The resulting catalyst (wet powder cake) is reslurried with ammonium nitrate. rare earth nitrate, and nitric acid from Liquid Raw Material Storage Tanks (C072 and D049). The slurry is pumped to Ion Exchange and Vacuum Filtration (C009, C084, C123, and D020) where the liquids are removed and pumped to Nitrate Co-Products. The catalyst (wet powder cake) is dried at Flash Drying (C006, C031, C039, and D026). The dried catalyst is pneumatically transferred via Transporters to Calcination (C035, C081, C121, C125, and D050). The calcined catalyst may be "multi-passed" through the Ion Exchange and Vacuum Filtration, Flash Drying, and Calcination steps prior to being pneumatically transported via Transporters to the Storage Silos. Finished catalyst is pneumatically transported via Transporters to Loadout (C041-C043, D042, and D043) for shipment to customers.

Silicate and Nitrate Co-Products Manufacturing

Liquids from the Ion Exchange and Vacuum Filtration (FCC) and Ion Exchange (MBC) processes are stored in various Liquid Raw Material Storage Tanks. The liquids are pumped to Clarifiers, Filter Press Filtration, Vacuum Filtration, and/or Fundabac Filtration where powder filter aids stored in Storage Silos (C068, C077, C114, and C116) may be used for filter drum precoating as well as a final drying step for the removed solids. Clarified liquid and filtered liquid is removed and pumped to the Concentrators (C002, C111, and D048). Concentrated sodium silicate is recycled as a raw material into the FCC manufacturing process. Concentrated ammonium/sodium nitrate is sold as a liquid fertilizer. The dry removed solids are disposed of in on-site landfills or sold as solid fertilizer, etc.

MBC Manufacturing

Kaolin "microspheres" (powder) are unloaded into Storage Silos (B005 and B010). The microspheres are pneumatically transported via Transporters (B003 and B007) to Make Down and Extrusion (B004) where they are mixed with caustic chemicals and extruded into pellets. The pellets are pumped to Zeolite Crystallization and reacted in oil baths using oil stored and recycled in the Mineral Oil Storage Tanks. The resulting catalyst pellets are pumped to Ion Exchange where the liquids are removed and pumped to Nitrate Co-Products. The catalyst pellets are transported via belt conveyors and bucket elevators to Calcination (B012). Calcined catalyst pellets are transported via belt conveyors and bucket elevators to Storage Silos and Loadout for shipment to customers.

Rare Earth Nitrate Manufacturing

Rare earth carbonate (powder) and/or rare earth oxide (powder) is unloaded into the Rare Earth Carbonate/Oxide Feed Hopper (C069). The rare earth is reacted in the Rare Earth Make Down Tank (C126) with nitric acid from the Nitric Acid Storage Tanks. The product, rare earth nitrate (liquid), is pumped to storage tanks for subsequent use in the FCC and MBC manufacturing processes.

Steam Generation

Adjacent to the Silicate and Nitrate Co-Products manufacturing process are the Boilers (C001A, C001B, and C113) used for steam generation. These boilers provide steam needed for various operations within the catalyst manufacturing process.

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 the plant-wide usage of distillate fuel oil to less than 3,000,000 gallons during any 12 consecutive month period.

[391-3-1-.03(2)(c) and Avoidance of 40 CFR 52.21]

2.2 Facility Wide Federal Rule Standards

2.2.1 For all equipment subject to 40 CFR Part 60 - "Standards of Performance for New Stationary Sources," the Permittee shall comply with all the provisions of Subpart A - "General Provisions."

[40 CFR Part 60.1 through 60.18]

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.

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	Applicable	Air Po	ollution Control Devices
ID No.	Description	Requirements/Standards	ID No.	Description
	•	Boilers		•
G01.4	D 11 AV 4	391-3-102(2)(d)		27/4
C01A	Boiler No. 4	391-3-102(2)(g)	None	N/A
COLD	Dailan Na 5	391-3-102(2)(d)	NI	NI/A
C01B	Boiler No. 5	391-3-102(2)(g)	None	N/A
		391-3-102(2)(d)		
C113	Boiler No. 6	391-3-102(2)(g)	None	N/A
CIIS	Bollet No. 0	40 CFR 60 Subpart A	None	N/A
		40 CFR 60 Subpart Dc		
	Rare Ea	rth Nitrate Manufacturing FCC Ray	w Material	
C069	Rare Earth Carbonate	391-3-102(2)(p)1	CC069	Baghouse
C009	Feed Hopper	391-3-102(2)(b)	CC009	
C126	Rare Earth Make Down Tank	391-3-102(2)(p)1	CC126	Venturi/Packed Tower
C120	Raic Lattii Wake Down Tank	391-3-102(2)(b)	CC120	Scrubber
		FCC Manufacturing		
C023	D1 Silo	391-3-102(2)(p)1	CC023	Baghouse
C023	DISHO	391-3-102(2)(b)	CC023	Dagnouse
C030	C4 Silo	391-3-102(2)(p)1	CC030	Baghouse
2030	C4 Bho	391-3-102(2)(b)	CC030	Bugnouse
C036	B1 Silo	391-3-102(2)(p)1	CC036	Baghouse
2030	B1 5h0	391-3-102(2)(b)	CC050	Bugnouse
C038	A2 Silo	391-3-102(2)(p)1	CC038	Baghouse
	112 5116	391-3-102(2)(b)		Duginouse
C040	B2 Silo	391-3-102(2)(p)1	CC040	Baghouse
		391-3-102(2)(b)		-
C044	I1 Silo	391-3-102(2)(p)1	CC044	Baghouse
		391-3-102(2)(b)		
C053	A1 Silo	391-3-102(2)(p)1	CC053	Baghouse
		391-3-102(2)(b) 391-3-102(2)(p)1	+	
C056	B3 Silo	391-3-102(2)(b)	CC056	Baghouse
		391-3-102(2)(p)1		+
C057	B4 Silo	391-3-102(2)(b)	CC057	Baghouse
		391-3-102(2)(p)1		
C059	A4 Silo	391-3-102(2)(b)	CC059	Baghouse
		391-3-102(2)(p)1		1
D001	E6 Silo	391-3-102(2)(b)	CD001	Baghouse
D.002	T- 011	391-3-102(2)(p)1	GD 000	
D003	F5 Silo	391-3-102(2)(b)	CD003	Baghouse
D004	D5 03	391-3-102(2)(p)1	CD004	D 1
D004	E5 Silo	391-3-102(2)(b)	CD004	Baghouse
D010	SDC Seems Die	391-3-102(2)(p)1	CD010	Deeleases
D019	SRC Surge Bin	391-3-102(2)(b)	CD019	Baghouse
D040	I4 C:10	391-3-102(2)(p)1	CD040	Doobouse
D040	I4 Silo	391-3-102(2)(b)	CD040	Baghouse
C022	Maka Doyun Transporter	391-3-102(2)(p)1	CC037	Paghousa
C032	Make Down Transporter	391-3-102(2)(b)	CC03/	Baghouse

ID No. C083 Load C122 Load D002 100° C037 FCC D005 MS1	Description dout Transporter No. 2 dout Transporter No. 3 Transporter System 123 Make Down Tank Weigh Bin Weigh Bin 4 Make Down Tank	Applicable Requirements/Standards 391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(b) 391-3-102(2)(b) 391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(p)1 391-3-102(2)(p)1 391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(b) 391-3-102(2)(b) 391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(b)	D No. CC083 CC141 CD002 CC037 CD005 CD006	Baghouse Baghouse Baghouse Baghouse Baghouse Baghouse Baghouse
C083 Load C122 Load D002 100 C037 FCC D005 MS1	lout Transporter No. 2 lout Transporter No. 3 Transporter System 123 Make Down Tank Weigh Bin Weigh Bin 4 Make Down Tank	391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(b) 391-3-102(2)(b) 391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(p)1 391-3-102(2)(p)1 391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(b) 391-3-102(2)(b) 391-3-102(2)(p)1	CC083 CC141 CD002 CC037 CD005	Baghouse Baghouse Baghouse Baghouse
C122 Load D002 100 C037 FCC D005 MS1	lout Transporter No. 3 Transporter System 123 Make Down Tank Weigh Bin Weigh Bin 4 Make Down Tank	391-3-102(2)(b) 391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(b) 391-3-102(2)(b) 391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(b) 391-3-102(2)(b) 391-3-102(2)(p)1	CC141 CD002 CC037 CD005	Baghouse Baghouse Baghouse
D002 100 C037 FCC D005 MS1	Transporter System 123 Make Down Tank Weigh Bin Weigh Bin 4 Make Down Tank	391-3-102(2)(b) 391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(b) 391-3-102(2)(b) 391-3-102(2)(b) 391-3-102(2)(b) 391-3-102(2)(b)	CD002 CC037 CD005	Baghouse Baghouse
C037 FCC D005 MS1	123 Make Down Tank Weigh Bin Weigh Bin 4 Make Down Tank	391-3-102(2)(b) 391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(p)1 391-3-102(2)(p)1 391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(p)1	CC037 CD005	Baghouse Baghouse
D005 MS1	Weigh Bin Weigh Bin 4 Make Down Tank	391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(p)1	CD005	Baghouse
	Weigh Bin 4 Make Down Tank	391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(p)1		
D006 MS2	4 Make Down Tank	391-3-102(2)(b) 391-3-102(2)(p)1	CD006	Daahaaaa
				Baghouse
D007 FCC	T 1 1 2	391-3-102(2)(b)	CD007	Baghouse
C009 Resla	urry Tank No. 3	391-3-102(2)(p)1 391-3-102(2)(b)	CC006	Baghouse
C047 Resla	urry Tank No. 1 Feed Bin	391-3-102(2)(p)1 391-3-102(2)(b)	CC047	Baghouse
C084 Resli	urry Tank No. 1	391-3-102(2)(p)1	CC039	Baghouse
C132 Resli	urry Tank No. 77 Feed Bin	391-3-102(2)(p)1 391-3-102(2)(b)	CC132	Baghouse
	urry Tank No. 77	391-3-102(2)(p)1 391-3-102(2)(b)	CC031	Baghouse
	urry Tank No. 7	391-3-102(2)(p)1	CD026	Baghouse
	iner No. 1 bustion Gases	391-3-102(2)(d) 391-3-102(2)(g)	None	N/A
C034 Calc	iner No. 1 Feed Bin	391-3-102(2)(p)1 391-3-102(2)(b)	CC034	Baghouse
	iner No. 1	NSPS UUU 391-3-102(2)(p)1	CC035	Baghouse
C127 Calc	iner No. 1 Product Bin	391-3-102(2)(p)1	CC035	Baghouse
	iner No. 2 Feed Bin	391-3-102(2)(p)1 391-3-102(2)(b)	CC079	Baghouse
('080	iner No. 2 bustion Gases	391-3-102(2)(d) 391-3-102(2)(g)	None	N/A
C081 Calc	iner No. 2	NSPS UUU 391-3-102(2)(p)1	CC081	Baghouse
C082 Calc	iner No. 2 Product Bin	391-3-102(2)(p)1	CC081	Baghouse
	iner No. 3 Feed Bin	391-3-102(2)(p)1 391-3-102(2)(b)	CC117	Baghouse
	iner No. 3 Product Bin	391-3-102(2)(p)1	CC121	Baghouse
	iner No. 3 bustion Gases	391-3-102(2)(d) 391-3-102(2)(g)	None	N/A
C121 Calc	iner No. 3	NSPS UUU 391-3-102(2)(p)1	CC121	Baghouse
C129 Calc	iner No. 4 Feed Bin	391-3-102(2)(p)1 391-3-102(2)(b)	CC129	Baghouse
(124	iner No. 4 bustion Gases	391-3-102(2)(d) 391-3-102(2)(g)	None	N/A
C125 Calc	iner No. 4	NSPS UUU 391-3-102(2)(p)1	CC125A	Baghouse
C131 Calc	iner No. 4 Product Bin	391-3-102(2)(p)1	CC125A	Baghouse
	iner No. 5 Feed Bin #1	391-3-102(2)(b) 391-3-102(2)(p)1	CD027	Baghouse
D028 Calc	iner No. 5 Feed Bin #2	391-3-102(2)(b) 391-3-102(2)(p)1	CD027	Baghouse
	iner No. 5 bustion Gases	391-3-102(2)(d) 391-3-102(2)(g)	None	N/A

	Emission Units Application Control Devices				
TD M	Emission Units	Applicable		ollution Control Devices	
ID No.	Description	Requirements/Standards	ID No.	Description	
D050	Calciner No. 5	NSPS UUU 391-3-102(2)(p)1	CD050	Baghouse	
D052	Calciner No. 5 Product Bin #1	391-3-102(2)(b) 391-3-102(2)(p)1	CD050	Baghouse	
D053	Calciner No. 5 Product Bin #2	391-3-102(2)(b) 391-3-102(2)(p)1	CD050	Baghouse	
C006	Flash Dryer No. 3	391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(g)	CC006	Baghouse	
C133	Flash Dryer No. 3 Fines Reclaim Receiver	391-3-102(2)(p)1 391-3-102(2)(b)	CC133	Baghouse	
C031	Flash Dryer No. 2	391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(g)	CC031	Baghouse	
C078	Flash Dryer No. 2 Surge Bin	391-3-102(2)(p)1 391-3-102(2)(b)	CC031	Baghouse	
C086	100 Ton Flash Dryer No. 3 Surge Bin	391-3-102(2)(p)1 391-3-102(2)(b)	CC006	Baghouse	
C039	Flash Dryer No. 1	NSPS UUU 391-3-102(2)(p)1 391-3-102(2)(g)	CC039	Baghouse	
C005	Flash Dryer No. 1 Transporter	391-3-102(2)(p)1 391-3-102(2)(b)	CC005	Baghouse	
D018	Flash Dryer No. 4	391-3-102(2)(p)1 391-3-102(2)(b) 391-3-102(2)(g)	CD018	Baghouse	
D026	Flash Dryer No. 5	NSPS UUU 391-3-102(2)(p)1 391-3-102(2)(g)	CD026	Baghouse	
C024	D2 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CC024	Baghouse	
C025	D3 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CC025	Baghouse	
C026	D4 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CC026	Baghouse	
C027	C1 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CC027	Baghouse	
C028	C2 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CC028	Baghouse	
C029	C3 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CC029	Baghouse	
C045	I2 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CC045	Baghouse	
C046	I3 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CC046	Baghouse	
C058	A3 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CC058	Baghouse	
D029	F4 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CD029	Baghouse	
D030	E4 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CD030	Baghouse	
D031	F3 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CD031	Baghouse	
D032	E3 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CD032	Baghouse	
D033	F2 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CD033	Baghouse	
D034	E2 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CD034	Baghouse	

	Emission Units	Applicable	Air Po	ollution Control Devices	
ID No.	Description	Requirements/Standards	ID No.	Description	
D035	F1 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CD035	Baghouse	
D036	E1 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CD036	Baghouse	
D037	I7 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CD037	Baghouse	
D038	I6 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CD038	Baghouse	
D039	I5 Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CD039	Baghouse	
C041	Blender No. 1	391-3-102(2)(p)1 391-3-102(2)(b)	CC041	Baghouse	
C042	Blender No. 2	391-3-102(2)(p)1 391-3-102(2)(b)	CC042	Baghouse	
C043	Blender No. 3	391-3-102(2)(p)1 391-3-102(2)(b)	CC043	Baghouse	
D042	Blender No. 4	391-3-102(2)(p)1 391-3-102(2)(b)	CD042	Baghouse	
D043	Blender No. 4 Loading Spout and Air Slide	391-3-102(2)(p)1 391-3-102(2)(b)	CD043	Baghouse	
D044	Blender No. 5	391-3-102(2)(p)1 391-3-102(2)(b)	CD044	Baghouse	
C134	MS1 Bin	391-3-102(2)(p)1 391-3-102(2)(b)	CC134	Baghouse	
C135	MS1 Transporter MS1 East Transporter	391-3-102(2)(p)1 391-3-102(2)(b)	CC134 or CC142	Baghouse	
C136	MS2 Bin	391-3-102(2)(p)1 391-3-102(2)(b)	CC136	Baghouse	
C137	WIP Transporter	391-3-102(2)(p)1 391-3-102(2)(b)	CC137	Baghouse	
C138	Tote Bin Vacuum System Transporter	391-3-102(2)(p)1 391-3-102(2)(b)	CC138	Baghouse	
C139	Loadout No. 5	391-3-102(2)(p)1 391-3-102(2)(b)	None	N/A	
C140	Loadout Transporter No. 1	391-3-102(2)(p)1 391-3-102(2)(b)	CC140	Baghouse	
Loadout Transporter No. 1 391-3-102(2)(b) CC140 Bagnouse					
B005	South Denning Silo	391-3-102(2)(p)2 391-3-102(2)(b)	CB005	Baghouse	
B007	South Denning Silo Transport System	391-3-102(2)(p)1 391-3-102(2)(b)	CB007	Baghouse	
B006	Rail Car Unloading Transport System	391-3-102(2)(p)2 391-3-102(2)(b)	CB006	Baghouse	
B010	North Denning Silo	391-3-102(2)(p)1 391-3-102(2)(b)	CB010	Baghouse	
B003	MBC Use Bin Transport System	391-3-102(2)(p)2 391-3-102(2)(b)	CB003	Baghouse	
B012	Electric Calciner	NSPS UUU 391-3-102(2)(p)1	CB012	Baghouse	
B004	Denning Building	391-3-102(2)(p)2 391-3-102(2)(b)	CB004	Baghouse	
	Silica	ate and Nitrate Co-Products Manufa	ecturing		
C068	Filter Aid Bin No. 1	391-3-102(2)(p)1 391-3-102(2)(b)	CC068	Baghouse	
C114	Filter Aid Bin No. 2	391-3-102(2)(p)1 391-3-102(2)(b)	CC114	Baghouse	
C077	Fines Tank No. 3	391-3-102(2)(p)1 391-3-102(2)(b)	CC077	Baghouse	
_	Fines Tank No. 4	391-3-102(2)(p)1	CC116	Baghouse	

Air Pollution Control Devices Emission Units Applicable ID No. **Description** Requirements/Standards ID No. **Description** Concentrator No. 2 391-3-1-.02(2)(p)1 C002 None N/A 391-3-1-.02(2)(b) Cooling Tower Concentrator No. 3 391-3-1-.02(2)(p)1 D048 None N/ACooling Tower 391-3-1-.02(2)(b) 391-3-1-.02(2)(p)1 Concentrator No. 4 C111 None N/A 391-3-1-.02(2)(b) Cooling Tower

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3.2 Equipment Emission Caps and Operating Limits

3.2.1 The Permittee shall limit emissions as not to contain particulate matter in excess of 0.015 grains/dscf from the following sources: Air pollution control devices (APCD) ID Nos. CD003, CD004, CD027, CD029-CD040, CD050, CB003, CC024, CC026, CC028, CC030, CC036, CC038, CC040, CC045, CC053, CC057, CC134, CC136, CC137, CC138, and CC142.

[391-3-1-.02(2)(p)1, 40 CFR 60.732, and Avoidance of 40 CFR 52.21]

- 3.2.2 The Permittee shall limit emissions so as not to contain particulate matter in excess of 0.02 grains/dscf from each piece of equipment with APCD ID Nos. CC077, CC031, CC079, CC081, CC083, CC034, CC035, CC129, CC125A, CC132, CC041, CC042, CC043, CC006, CC114, CC116, CC117, CC121, CC141, and CD002.

 [Avoidance of 40 CFR 52.21]
- 3.2.3 Particulate matter emitted from this source shall not exceed the rate equal to E max as listed below:

[Avoidance of 40 CFR 52.21]

Process Source Code	Process Equipment	* E Max Lbs/Hour	Control Equipment	Control Equipment Source Code
C126	Rare Earth Nitrate Mix Tank	1.00	Venturi/Packed Tower Scrubber	CC126
C111	Concentrator No. 4 Cooling Tower	2.20	None	N/A
D048	Concentrator No. 3 Cooling Tower	1.87	None	N/A
C002	Concentrator No. 2 Cooling Tower	1.87	None	N/A

^{*} Emission limits are PM10 (particulate matter less than or equal to 10 micrometers aerodynamic diameter)

3.2.4 The Permittee shall limit the feed rate into the Electric Calciner (B012) to 1.20 tons per hour. [Avoidance of 40 CFR 52.21]

^{*} Generally applicable requirements contained in this permit may also apply to emission units listed above. The lists of applicable requirements/standards are intended as a compliance tool and may not be definitive.

3.2.5 The Permittee shall not operate Calciner Nos. 1, 2, 3 and 4 (C035, C081, C121 and C125) at a production rate greater than 5.90 tons per two-hour average maximum each when all 4 calciners are operating simultaneously. When less than 4 calciners are operating simultaneously, maximum production rate shall not exceed 6.40 tons per two-hour average maximum each. The Permittee shall not operate Flash Dryer Nos. 1, 2 and 3 (C031, C039 and C006) at a production rate greater than 12.10 tons per two-hour average maximum each and Flash Dryer No. 5 (D026) at a production rate greater than 6.90 tons per two-hour average maximum.

[Avoidance of 40 CFR 52.21]

- 3.2.6 The Permittee shall not discharge or cause the discharge into the atmosphere from Calciner Nos. 1, 2, 3, 4 and 5 Cooler/Collectors (APCD ID Nos. CC035, CC081, CC121, CC125A, CC125B, and CD050) ammonia emissions in excess of 931.9 lb/hour total. [391-3-1-.03(2)c]
- 3.2.7 The Permittee shall not discharge or cause the discharge into the atmosphere from Reslurry Tank No.1 (C084) ammonia emissions in excess of 0.5 pounds per hour. [391-3-1-.03(2)c]
- 3.2.8 The Permittee shall not discharge or cause the discharge into the atmosphere from Calciner Nos. 1, 2, 3, and 4 Cooler/Collector Stacks (APCD ID Nos. CC035, CC081, CC121 and CC125A or CC125B) emissions of nitrogen oxides (NOX) in excess of 19.20 pounds per hour total. NOx emissions from Flash Dryer No. 5 (CD026) shall not exceed 5.40 pounds per hour.

[Avoidance of 40 CFR 52.21]

- 3.2.9 The Permittee shall burn only natural gas or fuel oil in Boiler Nos. 4-6 and Flash Dryer Nos. 2-5 (C001A, C001B, C006, C031, C113, D018 and D026). The fuel oil shall meet the specifications for fuel oils number 1 or 2 as defined by the American Society for Testing Materials (ASTM D396). Natural gas and liquid propane gas only shall be used as fuel for Calciner Nos. 1- 4 and Flash Dryer No. 1 (C035, C039, C081, C121, and C125). [391-3-1-.03(2)(c) and Avoidance of 40 CFR 52.21]
- 3.2.10 Visible emissions from Blender No. 3 (APCD ID No. CC043), 100 Ton Surge Bin No. 3 (APCD ID No. CC006), Filter Aid Bin No. 2 (APCD ID No. CC114), Fines Tank No. 4 (APCD ID No. CC116) and Calciner No. 3 Feed Bin (APCD ID No. CC117) shall not exceed 7 percent or greater opacity as determined by EPA Method 9 (6-minute average). [Avoidance of 40 CFR 52.21]

3.3 Equipment Federal Rule Standards

3.3.1 The Permittee shall comply with the 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, sources subject to Subpart UUU, the Permittee shall comply with the following conditions for each calciner and dryer: [40 CFR 60.732(a) and (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.

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- 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) and (c).
- 3.3.2 The Permit shall comply with all applicable provisions of the New Source Performance Standards (NSPS), 40 CFR 60 Subpart A "General Provisions," and Subpart Dc "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units," for the operation of Boiler No. 6 (C113).

 [40 CFR 60 Subparts A and Dc]
- 3.3.3 The Permittee shall not discharge or cause the discharge into the atmosphere from Boiler No. 6 (C113) any visible emissions, the opacity of which is equal to or greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.

 [40 CFR 60.43c(c) and 391-3-1-.02(2)(d)3]
- 3.3.4 The Permittee shall not discharge, or cause the discharge, into the atmosphere, from Boiler No. 6 (C113) any gases, which contain particulate emissions in excess of 0.03 pound per million Btu heat input.

 [40 CFR 60.43(e)(1) and 391-3-1-.02(2)(d)2]
- 3.3.5 The Permittee shall not burn any fuel oil containing more than 0.5 percent sulfur, by weight, in Boiler No. 6 (C113).

 [40 CFR 60.42c(d)]
- 3.3.6 The Permittee shall only fire natural gas, propane, and fuel oil in Boiler Nos. 4, 5 and 6 (C001A, C001B and C113). In particular, fuel oil shall only be burned during periods of gas curtailment, gas supply emergencies, or periods of testing on fuel oil. Testing on fuel oil shall not exceed 48 hours per calendar year.

 [Avoidance of 40 CFR 63 Subpart JJJJJJ 63.11195]

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.]
 - 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 not discharge, or cause the discharge, into the atmosphere, from all process equipment, any gases which exhibit visible emissions, the opacity of which is equal to or greater than 40 percent, unless otherwise specified.

 [391-3-1-.02(2)(b)1.]
- 3.4.3 Except as may be specified in other provisions of this Permit, the Permittee shall not: [391-3-1-.02(2)(g)]
 - a. burn fuel containing more than 2.5 percent sulfur, by weight, in any fuel burning sources rated below 100 million BTU's of heat input per hour;
 - b. burn fuel containing more than 3.0 percent sulfur, by weight, in any fuel burning sources rated at or above 100 million BTU's of heat input per hour.
- 3.4.4 The Permittee shall not discharge or cause the discharge into the atmosphere from Boiler No. 4 (C001A), Boiler No. 5 (C001B), Boiler No. 6 (C113), or Calciner Nos. 1-4, Combustion Gases (C033, C080, C119 and C124) any gases which contain particulate matter in excess of the rate derived from equation:

$$E = 0.5*(10/R)^{0.5}$$

where:

E = allowable particulate emission rate in pounds per million Btu heat input

R = the heat input in million Btu per hour.

The Permittee shall not discharge, or cause the discharge, from Boiler No. 4 (C001A), Boiler No. 5 (C001B), Boiler No. 6 (C113) or Calciner Nos. 1-4, Combustion Gases (C033, C080, C119 and C124) any 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 twenty-seven (27) percent opacity.

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

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 an adequate inventory of replacement filter bags for all baghouses.
 [391-3-1-.03(2)(c)]
- 3.5.3 Routine maintenance shall be performed on all air pollution control equipment. The Permittee shall record and maintain records of routine maintenance in a form suitable for inspection or submittal to the Division.

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

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 Part 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) and 40 CFR 63.7(b)(1)]
- 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 are as follows:
 - a. Method 1 for the determination of sample point locations.
 - b. Method 2 for the determination of flow rate.
 - c. Method 3 or 3A for the determination of stack gas molecular weight.
 - d. Method 3B for the determination of the emission rate correction factor or excess air. Method 3A may be used as an alternative for Method 3B.
 - e. Method 4 for the determination of stack gas moisture.
 - f. Method 5 or Method 17 as applicable, for the determination of Particulate Matter emissions, and in conjunction with Method 202 as deemed appropriate by the Division. Procedures of 40 CFR §60.736 shall be used for Subpart UUU applicable sources.
 - g. Method 7 or 7E for the determination of concentration of nitrogen oxides.
 - h. Method 9 and the procedures contained in Section 1.3 of the above reference document for the determination of opacity.
 - i. Method 22 for the visual determination of fugitive emissions.
 - j. Method 206, (CTM-027), for the determination of ammonia emissions.

k. Method 201 or Method 201A in conjunction with Method 202 shall be used to determine PM10/PM2.5 concentration. As an alternative, Method 5 in conjunction with Method 202 can be used.

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

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

4.1.4 The Permittee shall submit performance test results to the US EPA's Central Data Exchange (CDX) using the Compliance and Emissions Data Reporting Interface (CEDRI) in accordance with any applicable NSPS or NESHAP standards (40 CFR 60 or 40 CFR 63) that contain Electronic Data Reporting Requirements. This Condition is only applicable if required by an applicable standard and for the pollutant(s) subject to said standard. [391-3-1-.02(8)(a) and 391-3-1-.02(9)(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]

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 system to continuously monitor and record the indicated pollutants on the following equipment. Each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.

 [391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
 - a. Continuous Opacity Monitoring System (COMS), to measure and record the opacity of emissions from Calciner Nos. 1-5 (APCD ID Nos. CC035, CC081, CC121, CC125A, CC125B and CD050).
 - b. A Continuous Opacity Monitoring System (COMS), to measure and record the opacity of emissions from Electric Calciner (APCD ID No. CB012).
 - c. A Continuous Opacity Monitoring System (COMS), to measure and record the opacity of emissions from Reslurry Tank No. 1 and Flash Dryer No. 1 (APCD ID No. CC039).
 - d. A Continuous Opacity Monitoring System, (COMS), to measure and record the opacity of emissions from Reslurry Tank No. 7 and Flash Dryer No. 5 (APCD ID No. CD026).
- 5.2.2 The Permittee shall install, calibrate, maintain, and operate a system to continuously monitor and record the indicated parameters on the following equipment. Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.

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

- a. The temperature sensors on the outlet of Calciner Nos. 1, 2, 3, 4 and 5 shall be continuously measured and recorded. Using the temperature data, one-hour averages of the temperatures shall be determined and recorded.
- 5.2.3 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. 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 5.2.8. 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 atmospheric conditions or sun positioning prevent any opportunity to perform the daily VE check. Any operational day when atmospheric conditions or sun position prevent a daily reading shall be reported as monitor downtime in the report required by Condition 6.1.4. [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. of this condition.
- b. For each check where a stack is determined to be emitting visible emissions, the Permittee shall determine whether the emissions exceed a 10 percent opacity action level, using the procedure specified in paragraph d. of this condition, except that the person performing the determination shall have received additional training acceptable to the Division to recognize the appropriate opacity level and the determination shall cover a period of three minutes. The results shall be recorded in the daily VE log. For sources that exhibit visible emissions of greater than the opacity action level, the Permittee shall comply with paragraph c. of this condition.
- c. For each source that emits visible emissions greater than the opacity action level, 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 greater than the opacity action level, the pressure drops, 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 three stack heights, with 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.
- 5.2.4 The Permittee shall implement a Preventive Maintenance Program for the baghouses to assure that the provisions of Condition 8.17.1 are met. All QA/QC practices and criteria shall be stated in the Preventive Maintenance Program. The program shall be subject to review and, if necessary to assure compliance, 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.

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- 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.
- e. Check dust collector hoppers and conveying systems for proper operation.
- 5.2.5 The Permittee shall install continuous temperature monitors on the inlet of baghouses CB012, CC125A, CC125B, CC121, CC081, CC035, CC006, CC031, CC039, CD018, CD050 and CD026 that receive gases from sources above ambient temperature and record the time and date of each incident when the temperature exceeds the filter bag design temperature. In lieu of monitoring baghouse inlet temperatures, the Permittee may monitor surrogate temperatures (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 maintained in a form suitable for inspection or submittal to the Division.

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

- 5.2.6 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 7.2.1 for which no APCD is utilized. Emission units monitored in accordance with Conditions 5.2.1 or 5.2.2, boilers, the calciner combustion gases, and the cooling towers are exempt from this condition. The inspection shall be conducted by performing a walk-through of the facility, noting the occurrence of the following in a daily VE log:
 - a. Any visible emissions.
 - 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 paragraph "a" and "b" within 24 hours shall constitute an excursion.

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[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 monitoring devices for the measurement of the indicated parameters on the following equipment. Data shall be recorded at the frequency specified below. Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.

[40 CFR 60.48c(g), 391-3-1-.02(6)(b)1, and 40 CFR 70.6(a)(3)(i)]

- a. A natural gas consumption meter to continuously measure and record the quantity of natural gas, in cubic feet, burned in Boiler No. 6 (C113). Data shall be recorded daily.
- b. A fuel oil consumption meter to continuously measure and record the quantity of fuel oil, in gallons, burned in Boiler No. 6 (C113). Data shall be recorded daily.
- c. As an alternative to paragraphs a. and b. of this condition, the Permittee may record and maintain records of the amount of each boiler fuel delivered to Boiler No. 6 (C113) during each calendar month.
- 5.2.8 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
C037 FCC 123 Makedown Tank	PM
C041, C042, C043, D042, and D044 (Blender Nos. 1, 2, 3,	PM
4, and 5)	
D007 FCC4 Makedown Tank	PM
D043 Blender No. 4 Loadout Spout & Airslide	PM

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]

5.2.9 The Permittee shall comply with the performance criteria listed in the table below for the particulate matter emissions from emission units listed in Condition 5.2.8. [40 CFR 64.6(c)(1)(iii)]

Performance Criteria [64.4(a)(3)]	Indicator No. 1 Visible Emission Check	Indicator No. 2 Baghouse Inspection
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 5.2.4

Performance Criteria [64.4(a)(3)]		Indicator No. 1 Visible Emission Check	Indicator No. 2 Baghouse Inspection
В.	Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]	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 5.2.4
D.	Monitoring Frequency [64.3(b)(4)]	Once per day or portion of day of the emission unit is operated as prescribed in Condition 5.2.3	At least once each week
E.	Data Collection Procedures [64.3(b)(4)]	Visual readings manually recorded in a daily VE log suitable for inspection or submittal. Pressure drop and other pertinent data must be recorded in the log if a problem requiring action is detected.	Manual readings and data logging
F.	Averaging Period [64.3(b)(4)]	Three-minute average	Not Applicable

5.2.10 The Permittee shall conduct subsequent performance testing at the frequency specified in the table below in order to monitor compliance with the emission limit specified in Condition 3.3.3. If, during the initial 60 minutes of observation, all 6-minute averages are less than 10 percent and all individual 15-second observations are less than or equal to 20 percent, the observation period may be reduced from 3 hours to 60 minutes.

[40 CFR 60.47c(a)(1), 391-3-1-.02(6)(b)1, and 40 CFR 70.6(a)(3)(i)]

Highest 6-Minute Average Opacity Observed	Subsequent test shall be conducted within:
0%	12 Months, or within 45 days of the next day that fuel with an opacity standard is combusted, whichever is later.
>0%-5%	6 Months, or within 45 days of the next day that fuel with an opacity standard is combusted, whichever is later.
>5%-10%	3 Months, or within 45 days of the next day that fuel with an opacity standard is combusted, whichever is later.
>10%	45 Days

- 5.2.11 In lieu of the subsequent performance testing required by Permit Condition 5.2.10, the Permittee may choose the following procedures listed in this condition.

 [40 CFR 60.47c(a)(2) and 40 CFR 60.47c(a)(3)]
 - a. If the maximum 6-minute opacity is less than 10 percent during the most recent Method 9 performance test, the Permittee may, as an alternative to performing subsequent Method 9 performance tests, elect to perform subsequent monitoring using Method 22, according to the procedures specified in paragraphs below.

i. The Permittee shall conduct a 10-minute observation (during normal operation) each operating day each boiler fires fuel for which an opacity standard is applicable using Method 22 and demonstrate that the sum of the occurrences of any visible emissions is not in excess of 5 percent of the observation period (i.e., 30 seconds per 10-minute period). If the sum of the occurrences of any visible emissions is greater than 30 seconds during the initial 10-minute observation, the Permittee shall immediately conduct a 30-minute observation. If the sum of the occurrences of visible emissions is greater than 5 percent of the observation period (i.e., 90 seconds per 30-minute observation period), the owner or operator shall either document and adjust the operation of the facility and demonstrate within 24 hours that the sum of the occurrences of visible emissions is equal to or less than 5 percent during a 30-minute observation (i.e., 90 seconds) or conduct a new Method 9 performance test using the procedures in 40 CFR 60.47c(a) within 45 calendar days. The Permittee shall maintain documentation of any adjustments made and the time the adjustments were completed to the affected unit.

- ii. If no visible emissions are observed for 10 operating days during which an opacity standard is applicable, observations can be reduced to once every 7 operating days during which an opacity standard is applicable. If any visible emissions are observed, daily observations shall be resumed.
- b. If the maximum 6-minute opacity is less than 10 percent during the most recent Method 9 performance test, the Permittee, as an alternative to performing subsequent Method 9 performance tests, may elect to perform subsequent monitoring using a digital opacity compliance system according to a site-specific monitoring plan approved by the Division. The observations shall be similar, but not necessarily identical, to the requirements in paragraph a. of this permit condition. For reference purposes in preparing the monitoring plan, see OAQPS "Determination of Visible Emission Opacity from Stationary Sources Using Computer-Based Photographic Analysis Systems." This document is available from the U.S. Environmental Protection Agency (U.S. EPA); Office of Air Quality and Planning Standards; Sector Policies and Programs Division; Measurement Policy Group (D243–02), Research Triangle Park, NC 27711. This document is also available on the Technology Transfer Network (TTN) under Emission Measurement Center Preliminary Methods.
- 5.2.12 The Permittee shall submit excess emission reports for any excess emissions from Boiler No. 6 (C113) that occur during the reporting period and maintain records according to the requirements specified in paragraphs a. or b. of this condition, as applicable, depending on the visible emissions monitoring method used.

 [40 CFR 60.48c(c), 391-3-1-.02(6)(b)1, and 40 CFR 70.6(a)(3)(i)]
 - a. For each performance test conducted using Method 9, the Permittee shall keep records, including the information specified in paragraphs a.i. through iii. of this condition.
 - i. Dates and time intervals of all opacity observation periods;

ii. Name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test; and

- iii. Copies of all visible emission observer opacity field data sheets.
- b. For each performance test conducted using Method 22, the Permittee shall keep records, including the information specified in paragraphs b.i. through iv. of this condition:
 - i. Dates and time intervals of all visible emissions observation periods;
 - ii. Name and affiliation for each visible emission observer participating in the performance test;
 - iii. Copies of all visible emission observer opacity field data sheets; and
 - iv. Documentation of any adjustments made and the time the adjustments were completed to the affected facility operation by the Permittee to demonstrate compliance with the applicable monitoring requirements.

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 semiannual period ending June 30 and December 31 of each year, shall be postmarked by August 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 semiannual period ending June 30 and December 31 of each year. All reports shall be postmarked by August 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.
- 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.

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- 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: [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 required measurements, including continuous monitoring systems, monitoring devices, and performance testing measurements; all continuous monitoring system or monitoring device calibration checks; and 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 purpose of reporting excess emissions, exceedances or excursions in the report required in Condition 6.1.4, the following excess emissions, exceedances, and excursions shall be reported:

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

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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. Opacity from Boiler No. 6 (C113) in excess of the opacity standards in Condition 3.3.3.
 - [391-3-1-.02(6)(b)1 and 40 CFR 60.48c(c)]
- 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-minute average opacity, as recorded by the Continuous Opacity Monitoring Systems required by Condition 5.2.1a., b., c., and d. that exceeds 10 percent.
 - ii. Any period during which fuel oil burned in Boiler No. 6 (C113) has a sulfur content greater than 0.5 percent, by weight.
 - iii. Any twelve consecutive month period during which the facility-wide distillate fuel oil use exceeds 3,000,000 gallons.
 - iv. Each occurrence where the fuel sulfur content exceeds the limits specified in Condition 3.4.3.
- 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. For the sources specified in Condition 5.2.3, any two consecutive required daily determinations of visible emissions from the same source for which visible emissions are above the opacity action level.
 - ii. Any visible emissions, mechanical failure or malfunction discovered during the walk-through described in Condition 5.2.6 that are not eliminated or corrected within 24 hours of first discovering the visible emissions, mechanical failure or malfunction.
 - iii. Each occurrence when the temperature at the inlet of any baghouse specified in Condition 5.2.5 exceeds the filter bag design temperature.
 - iv. Each occurrence when the three-hour average temperature at the outlet of Calciner Nos. 1, 2, 3, 4 or 5 exceeds 1,600 °F.

v. Each occurrence where the operation of those units subject to Conditions 3.2.4 and 3.2.5 are not consistent with the specified operational limitations of 3.2.4 and 3.2.5.

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- vi. Any instance a weekly preventative maintenance check required by Condition 5.2.4 reveals a problem that is not resolved according to the preventative maintenance program.
- vii. Any observation of visible emissions observed in accordance with Permit Condition 5.2.11 that is not corrected within 24 hours. [391-3-1-.02(6)(b)1, 40 CFR 60.41c, 40 CFR 60.42c(d), and 40 CFR 60.42c(i)]

6.2 Specific Record Keeping and Reporting Requirements

- 6.2.1 The Permittee shall comply with the general provisions of 40 CFR, Part 60, "Standards of Performance for New Stationary Sources (NSPS)." In particular, for sources subject to NSPS, the Permittee shall comply with the reporting and record keeping requirements of 40 CFR, Part 60, Subpart A and furnish the Division written notification as follows: [40 CFR 60.7(a)(1) thru (4) and 60.676(g and h)]
 - a. A notification of the date construction or reconstruction of NSPS equipment is commenced postmarked no later than 30 days after such date.
 - b. A notification of the anticipated date of initial startup of NSPS equipment postmarked not more than 60 days nor less than 30 days prior to such date.
 - c. A notification of the actual date of initial startup of NSPS equipment postmarked within 15 days after such date.
 - d. A notification of any physical or operational change to an existing NSPS equipment which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted in the applicable Subpart of 40 CFR, Part 60. This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the equipment before and after the change, and the expected completion date of the change. The Division may request additional relevant information subsequent to this notice.
- 6.2.2 The Permittee shall record and maintain records of the hourly production rates of Calciner Nos. 1, 2, 3, and 4 (C035, C081, C121 and C125) and Flash Dryer Nos. 1, 2, 3 and 5 (C031, C039, C006 and D026) to demonstrate compliance with Condition 3.2.5.

 [Avoidance of 40 CFR 52.21]
- 6.2.3 The Permittee shall record and maintain records of the hourly feed into the Electric Calciner (B012) to demonstrate compliance with Condition 3.2.4.

 [Avoidance of 40 CFR 52.21]

6.2.4 The Permittee shall record and maintain records of the amounts of fuel oil combusted throughout the facility.

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- [391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- 6.2.5 The Permittee shall verify that fuel oil combusted in Boiler No. 6 (C113) complies with the requirements of Condition 3.2.9 of the Permit. Verification shall consist of either of the following:

[40 CFR 60.48c(f)(1) and 391-3-1-.02(6)(b)1]

- a. Fuel oil receipts obtained from the fuel supplier certifying that the oil is distillate fuel oil containing less than or equal to 0.5 percent sulfur, by weight; or
- b. Analysis of the fuel oil conducted by methods of sampling and analysis which have been specified or approved by the Division which demonstrates that the fuel oil contains less than or equal to 0.5 percent sulfur, by weight.
- 6.2.6 The Permittee shall record each day and maintain records of the amounts of natural gas and fuel oil combusted in Boiler No. 6 (C113). Records shall be kept for five years after the date of record and be available for inspection by or submission to the Division upon request. As an alternative, the Permittee may record and maintain records of the amount of each boiler fuel delivered to Boiler No. 6 (C113) during each calendar month.

 [40 CFR 70.6(a)(3)(i) and 40 CFR 60.48c(g)]
- 6.2.7 The Permittee shall submit, with the report required by Condition 6.1.4, a semiannual report that contains the following records for the operation of Boiler No. 6 (C113). The records shall be available for inspection or submittal to the Division upon request and contain: [391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
 - a. The fuel supplier certifications and analysis, as specified in Condition 6.2.5, for fuel oil fired during the reporting period and a statement signed by a responsible official that the records of fuel supplier certifications and analysis submitted represent all of the fuel oil combusted in Boiler No. 6 (C113) during the semiannual reporting period.
 - b. The total amount of natural gas (cubic feet) consumed by Boiler No. 6 (C113), calculated in accordance with Condition 6.2.6 for the 12 consecutive month period ending at each calendar month in the semiannual reporting period.
 - c. The total amount of fuel oil (gallons) consumed by Boiler No. 6 (C113), calculated in accordance with Condition 6.2.6 for the 12 consecutive month period ending at each calendar month in the semiannual reporting period.
- 6.2.8 The Permittee shall maintain a record of all actions taken in accordance with Condition 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)]

- 6.2.9 The Permittee shall submit a written report for each semiannual period ending June 30 and December 31 during which fuel oil was combusted in any fuel burning source. The semiannual reports shall be postmarked by August 29 and February 28. 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 semiannual period. A fuel supplier certification shall be obtained from the supplier for each fuel oil shipment delivered to the Permittee and shall contain a statement that the fuel oil complies with the specifications for fuel oil numbers 1 or 2 contained in ASTM D396 (Standard Specification for Fuel Oils). If no fuel oil was combusted during the semiannual period, the report should so state.
 - [391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- 6.2.10 The Permittee shall submit a written report containing the 12 consecutive month total amounts of fuel oil combusted in the fuel burning sources for each semiannual period ending June 30 and December 31 of each year. The semiannual reports shall be postmarked August 29 and February 28, respectively. The report shall consist of six 12-consecutive month totals (one 12-consecutive month total for each month in the reporting period). A 12-consecutive month total shall be the total for a month in the reporting period plus the totals for the previous eleven consecutive months.

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

6.2.11 Along with the report required in Condition 6.1.7, the Permittee shall submit the results of any visible emissions observations conducted in accordance with Conditions 5.2.10 and/or 5.2.11 during the reporting period. If no observations were conducted, the report shall so state.

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

6.2.12 The Permittee shall keep a written record of each and all instances during which fuel oil was fired in Boiler Nos. 4, 5 and 6 (C001A, C001B and C113). The record shall be available for submittal to and review by the Division and contain the date and time, duration of event, and the reason fuel oil was fired.

[Avoidance of 40 CFR 63 Subpart JJJJJJ – 63.11195]

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 3 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.

7.2 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)]

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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

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 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 using RMP*eSubmit (information for establishing an account can be found at www.epa.gov/rmp/rmpesubmit). Electronic Signature Agreements should be mailed to:

MAIL

Risk Management Program (RMP) Reporting Center P.O. Box 10162 Fairfax, VA 22038

COURIER & FEDEX

Risk Management Program (RMP) Reporting Center CGI Federal 12601 Fair Lakes Circle Fairfax, VA 22033 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.

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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
3295-087-0037-V-05-0	October 3, 2018
3295-087-0037-V-05-1	September 5, 2019
3295-087-0037-V-05-2	February 11, 2020

7.13 Pollution Prevention

Not Applicable

7.14 Specific Conditions

Not Applicable

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.

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[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 issuance 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 Radiation Division
Air Planning and Implementation 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 three (3) or more years. 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 the effective date of the requirement is later than the date on which the Permit is due to expire, unless the original permit or any of its terms and conditions has been extended under Condition 8.5.3; [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: [391-3-1-.03(10)(d)7 and 40 CFR 70.6(g)(2) and (3)]
 - 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

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- 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:

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- 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)(c)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

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- 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

State Only Enforceable Condition.

8.15.1 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]

State Only Enforceable Condition.

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:

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 $E = 4.1P^{0.67}$; 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

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

- 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:
 - 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 subject to the requirements of Georgia Rule 391-3-1-.02(2)(ff) "Solvent Metal Cleaning" 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 subject to the requirements of Georgia Rule 391-3-1-.02(2)(c) "Incinerators", 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.

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- 8.24.2 No person shall cause, let, suffer, permit, or allow from any incinerator subject to the requirements of Georgia Rule 391-3-1-.02(2)(c) "Incinerators", 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 subject to the requirements of Georgia Rule 391-3-1-.02(2)(c) "Incinerators" which are individually large enough to be visible to the unaided eye.
- 8.24.4 No person shall operate an existing incinerator subject to the requirements of Georgia Rule 391-3-1-.02(2)(c) "Incinerators" 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 Georgia 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)]

8.27 Internal Combustion Engines

- 8.27.1 For diesel-fired internal combustion engine(s) manufactured after April 1, 2006 or modified/reconstructed after July 11, 2005, the Permittee shall comply with all applicable provisions of New Source Performance Standards (NSPS) as found in 40 CFR 60 Subpart A "General Provisions" and 40 CFR 60 Subpart IIII "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines." Such requirements include but are not limited to:
 - [40 CFR 60.4200]
 - a. Equip all emergency generator engines with non-resettable hour meters in accordance with Subpart IIII.
 - b. Purchase only diesel fuel with a maximum sulfur content of 15 ppm unless otherwise specified by the Division in accordance with Subpart IIII.
 - c. Conduct engine maintenance prescribed by the engine manufacturer in accordance with Subpart IIII.
 - d. Limit non-emergency operation of each emergency generator to 100 hours per year in accordance with Subpart IIII. Non-emergency operation other than maintenance and readiness testing is prohibited for engines qualifying as "emergency generators" for the purposes of Ga Rule 391-3-1-.02(2)(mmm).
 - e. Maintain any records in accordance with Subpart IIII
 - f. Maintain a list of engines subject to 40 CFR 60 Subpart IIII, including the date of manufacture. [391-3-1-.02(6)(b)]
- 8.27.2 The Permittee shall comply with all applicable provisions of New Source Performance Standards (NSPS) as found in 40 CFR 60 Subpart A "General Provisions" and 40 CFR 60 Subpart JJJJ "Standards of Performance for Stationary Spark Ignition Internal Combustion Engines," for spark ignition internal combustion engine(s) (gasoline, natural gas, liquefied petroleum gas or propane-fired) manufactured after July 1, 2007 or modified/reconstructed after June 12, 2006.

 [40 CFR 60.4230]
- 8.27.3 The Permittee shall comply with all applicable provisions of National Emission Standards for Hazardous Air Pollutants (NESHAP) as found in 40 CFR 63 Subpart A "General Provisions" and 40 CFR 63 Subpart ZZZZ "National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines."

For diesel-fired emergency generator engines defined as "existing" in 40 CFR 63 Subpart ZZZZ (constructed prior to June 12, 2006 for area sources of HAP, constructed prior to June 12, 2006 for ≤500hp engines at major sources, and constructed prior to December 19, 2002 for >500hp engines at major sources of HAP), such requirements (if applicable) include but are not limited to:

[40 CFR 63.6580]

a. Equip all emergency generator engines with non-resettable hour meters in accordance with Subpart ZZZZ.

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- b. Purchase only diesel fuel with a maximum sulfur content of 15 ppm unless otherwise specified by the Division in accordance with Subpart ZZZZ.
- c. Conduct the following in accordance with Subpart ZZZZ.
 - i. Change oil and filter every 500 hours of operation or annually, whichever comes first
 - ii. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first and replace as necessary
 - iii. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first and replace as necessary.
- d. Limit non-emergency operation of each emergency generator to 100 hours per year in accordance with Subpart ZZZZ. Non-emergency operation other than maintenance and readiness testing is prohibited for engines qualifying as "emergency generators" for the purposes of Ga Rule 391-3-1-.02(2)(mmm).
- e. Maintain any records in accordance with Subpart ZZZZ
- f. Maintain a list of engines subject to 40 CFR 63 Subpart ZZZZ, including the date of manufacture. [391-3-1-.02(6)(b)]

8.28 Boilers and Process Heaters

- 8.28.1 If the facility/site is an area source of Hazardous Air Pollutants, the Permittee shall comply with all applicable provisions of National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 63 Subpart A "General Provisions" and 40 CFR 63 Subpart JJJJJJ "National Emission Standards for Hazardous Air Pollutants for Area Sources: Industrial, Commercial, and Institutional Boilers."

 [40 CFR 63.11193]
- 8.28.2 If the facility/site is a major source of Hazardous Air Pollutants, the Permittee shall comply with all applicable provisions of National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 63 Subpart A "General Provisions" and 40 CFR 63 Subpart DDDDD "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters."

 [40 CFR 63.7480]

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

ATTACHMENT A

List Of Standard Abbreviations

AIRS	Aerometric Information Retrieval System
APCD	Air Pollution Control Device
ASTM	American Society for Testing and Materials
BACT	Best Available Control Technology
BTU	British Thermal Unit
CAAA	Clean Air Act Amendments
CEMS	Continuous Emission Monitoring System
CERMS	Continuous Emission Rate Monitoring System
CFR	Code of Federal Regulations
CMS	Continuous Monitoring System(s)
CO	Carbon Monoxide
COMS	Continuous Opacity Monitoring System
dscf/dscm	Dry Standard Cubic Foot / Dry Standard Cubic
	Meter
EPA	United States Environmental Protection Agency
EPCRA	Emergency Planning and Community Right to
	Know Act
gr	Grain(s)
GPM (gpm)	Gallons per minute
H ₂ O (H2O)	Water
HAP	Hazardous Air Pollutant
HCFC	Hydro-chloro-fluorocarbon
MACT	Maximum Achievable Control Technology
MMBtu	Million British Thermal Units
MMBtu/hr	Million British Thermal Units per hour
MVAC	Motor Vehicle Air Conditioner
MW	Megawatt
NESHAP	National Emission Standards for Hazardous Air
	Pollutants
$NO_x (NOx)$	Nitrogen Oxides
NSPS	New Source Performance Standards
OCGA	Official Code of Georgia Annotated

PM	Particulate Matter
PM_{10}	Particulate Matter less than 10 micrometers in
(PM10)	diameter
PPM (ppm)	Parts per Million
PSD	Prevention of Significant Deterioration
RACT	Reasonably Available Control Technology
RMP	Risk Management Plan
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO ₂ (SO2)	Sulfur Dioxide
USC	United States Code
VE	Visible Emissions
VOC	Volatile Organic Compound
	I

Permit No.: 3295-087-0037-V-06-0

List of Permit Specific Abbreviations

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	Cleaning and sweeping of streets and paved surfaces	1
Combustion Equipment	Fire fighting and similar safety equipment used to train fire fighters or other emergency personnel.	1
	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 391-3-103(10)(g)2.(ii) for descriptions of waste types)	
	3. Open burning in compliance with Georgia Rule 391-3-102 (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 391-3-102(2)(mmm).7	4
	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.	
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.	1
Maintenance, Cleaning, and Housekeeping	Blast-cleaning equipment using a suspension of abrasive in water and any exhaust system (or collector) serving them exclusively.	1
	2. Portable blast-cleaning equipment.	1
	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.	5
	5. Non-routine clean out of tanks and equipment for the purposes of worker entry or in preparation for maintenance or decommissioning.	1
	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.	

INSIGNIFICANT ACTIVITIES CHECKLIST

Category	Description of Insignificant Activity/Unit	Quantity
Laboratories and Testing	Laboratory fume hoods and vents associated with bench-scale laboratory equipment used for physical or chemical analysis.	1
	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.	1
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.	1
	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.	2
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: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. 	
	vi) Feed mill ovens.	
	vii) Surface coating drying ovens	
	 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: i) Activity is performed indoors; & ii) No significant fugitive particulate emissions enter the environment; & 	1
	 iii) No visible emissions enter the outdoor atmosphere. 4. Photographic process equipment by which an image is reproduced upon material sensitized to radiant energy (e.g., blueprint activity, photographic developing and microfiche). 	1
	5. Grain, food, or mineral extrusion processes	1
	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.	
	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.	

INSIGNIFICANT ACTIVITIES CHECKLIST

Category	Description of Insignificant Activity/Unit	Quantity
Storage Tanks and	1. All petroleum liquid storage tanks storing a liquid with a true vapor pressure of equal to or less	12
Equipment	 than 0.50 psia as stored. 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. 	9
	 All petroleum liquid storage tanks with a capacity of less than 10,000 gallons storing a petroleum liquid. 	10
	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.	7
	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.	1
	6. Portable drums, barrels, and totes provided that the volume of each container does not exceed 550 gallons.	100
	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).	3

INSIGNIFICANT ACTIVITIES BASED ON EMISSION LEVELS

Description of Emission Units / Activities	Quantity
Nitric Acid Unloading Station (C072 & D049)	2
Soda Ash Addition Process (C130)	1
Fresh Water Cooling Towers (C191, C333, C381, C775)	4

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.

	Number of Units (if appropriate)	Applicable Rules		
Description of Emissions Units / Activities		Opacity Rule (b)	PM from Mfg Process Rule (e)	Fugitive Dust Rule (n)

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.	1

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/index.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/software/tanks/index.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).