Berkeley Springs Plant

Title V Permit to Operate Renewal Application
Permit Number: R30-06500001-2008 (SM01)
June 24, 2013 (Final)

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Introduction

U.S. Silica submitted a Title V permit renewal application to the West Virginia Department of Environmental Protection (WVDEP) in June 2008 to fulfill the permit requirements for a major air pollution emission source. The WVDEP issued a Permit to Operate pursuant to Title V of the Clean Air Act on December 30, 2008 (Permit No. R30-06500001-2008). This permit was effective on January 13, 2009, and will expire on December 30, 2013. The WVDEP requires renewal applications for Title V permits to be submitted no earlier than 12 months and no later than 6 months before the expiration date. As such, the facility must submit its renewal application before June 30, 2013. The following document provides the information required for the renewal application. For completeness the following information is submitted:

- Two signed copies of the application (at least one must contain the original "Certification" page signed and dated in blue ink).
- Table of Contents.
- Description of process and products, including NAICS and SIC codes, and including alternative operating scenarios.
- Area map showing plant location and plot plan showing buildings and process areas.
- Process flow diagram(s), showing all emission units, control equipment, emission points, and their relationships.
- Identification of all applicable requirements with a description of the compliance status and the methods used for demonstrating compliance.
- The facility is in compliance with all applicable requirements; as such, a Schedule of Compliance Form (ATTACHMENT F) is not included.
- A listing of all active permits and consent orders is included in the General Application Forms.
- The facility-wide emissions summary is included in the General Application Forms.
- Identification of Insignificant Activities is included in the General Application Forms.
- ATTACHMENT D - Title V Equipment Table completed for all emission units at the facility except those designated as insignificant activities.
- ATTACHMENT E - Emission Unit Form completed for each emission unit listed in the Title V Equipment Table (ATTACHMENT D).
- ATTACHMENT G - Air Pollution Control Device Form completed for each control device listed in the Title V Equipment Table (ATTACHMENT D).
- ATTACHMENT H – Compliance Assurance Monitoring (CAM) Plan Form completed for each control device for which the "Is the device subject to CAM?" question is answered "Yes" on the Air Pollution Control Device Form (ATTACHMENT G).
- The General Application Forms have been signed by a Responsible Official.
- The facility is not seeking confidential information status for this submittal.

In addition to the information presented on the forms listed above, the following is a list of the proposed changes to the existing Title V information and permit.

Table 1. Renewal Title V Permit Application - General Form

Section No.	Description	Comment
13	Contact Information	The responsible official contact information has been updated to the current RO.

Table 1. Renewal Title V Permit Application - General Form

Section No.	Description	Comment
13	Contact Information	Application preparer information has been updated.
20	Facility-wide Applicable Requirements, Testing, Monitoring and Recordkeeping Requirements	Updated to reflect the most recent version of the Title V Operating Permit R30-06500001-2008 (MM01).
21	Active Permits/Consent Orders	Updated to include permits issued after January 13, 2009.
24	Insignificant Activities	The plant owns a propane-fired 20 kW generator that is a power source for the reticulating pump and oil heater for the #6 oil storage tank. The unit meets the criteria for insignificant activity under item 19. The following table provides estimated emissions for this unit operating at 8760 hours per year.

Potential Emissions from 20 kW Generator

Pollutant	AP-42 Emission Factor lb/1000 gal	Throughput gal propane/hr	Emissions lb/hr	Emissions lb/yr
PM, Total	0.7	2.9	0.002	17.8
SO2	0.016	2.9	0.00005	0.4
Nox	13	2.9	0.038	330.3
CO	7.5	2.9	0.022	190.5
TOC	1	2.9	0.003	25.4

Table 2. List of Revisions to Attachment D

ID	Emission Unit Name	Emission Unit Description	Control Device Description	Comment
Wet Processing Plant (Rod Mill Building)				
19	SCREN1	Ty Speed 8 x 20 Screening Machine	FE, BE (Bldg #4), SS	
19.1	SCREN1	METSO 8 x 20 Screen	FE, BE (Bldg #4), SS	Revised emission unit description.
23	CLASS4, 5 & 7	Hydrosizers	SS	
23.1	CLASS3 & 4	Hydrosizers	SS	Removed CLASS5 from the equipment group.
29	CONV17	30" Shuttle Conveyor in Fluid Bed Drain Shed	FE, BE (Bldg #6), SS	
29.1	CONV19	30" Shuttle Conveyor in Fluid Bed Drain Shed	FE, BE (Bldg #6), SS	Renamed CONV17 to CONV19.
34	V1BFD4	Fluid Bed Dryer vibratory feeder	FE	
34.1	V1BFD4	C3 Belt, Vibratory Feeder	FE	Revised emission unit description.
Wet Float Plant				
41.1	CYCLO2	Wet Cyclone Overrake	SS	Added existing emission unit to Attachment D.
Milling Process				
62	SCREW5	Cross Conveyor	FE, BE (Bldg #11), CF #10 (Mikropul CFH 40T-20-B)	
62.1	SCREW5	Generic EUID for Screw Conveyors	FE	Added generic emission unit for general screw conveyors.
63	SCREW4	Mills #3 and #4 Screw Conveyor	FE, BE, CF#11 (Mikropul CFH 40T-20-B), and CF #10 (Mikropul	

Table 2. List of Revisions to Attachment D

ID	Emission Unit Name	Emission Unit Description	Control Device Description	Comment
			CFH 40T-20-B)	
63.1	SCREW4	Mills #3 and #4 Screw Conveyor	FE, BE, (Bldg #11), CF #11 (Torit DFT 4-48), and CF #10 (Mikropul CFH 40T-20-B)	Change control device description.
66	#3 Mill Feed Bin	#3 Mill Feed Bin	FE, BE (Bldg #11), CF #11 (Mikropul CFH 40T-20-B)	
66.1	#3 Mill Feed Bin	#3 Mill Feed Bin	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	Change control device description.
67	#4 Mill Feed Bin	#4 Mill Feed Bin	FE, BE (Bldg #11), CF #11 (Mikropul CFH 40T-20-B)	
67.1	#4 Mill Feed Bin	#4 Mill Feed Bin	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	Change control device description.
70	FEEDB3	#3 Pebble Mill Feeder Belt	FE, BE (Bldg #11), CF #11 (Mikropul CFH 40T-20-B)	
70.1	FEEDB3	#3 Pebble Mill Feeder Belt	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	Change control device description.
71	FEEDB4	#4 Pebble Mill Feeder Belt	FE, BE (Bldg #11), CF #11 (Mikropul CFH 40T-20-B)	
71.1	FEEDB4	#4 Pebble Mill Feeder Belt	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	Change control device description.
72	MILL2	#1 Pebble Mill	FE, BE (Bldg #11)	
72.1	MILL2	#1 Pebble Mill	FE, BE, CF #10 (Mikropul CFH 40T-20-B)	Change control device description.
73	MILL3	#2 Pebble Mill	FE, BE (Bldg #11)	
73.1	MILL3	#2 Pebble Mill	FE, BE, CF #10 (Mikropul CFH 40T-20-B)	Change control device description.
74	MILL4	#3 Pebble Mill	FE, BE (Bldg #11)	
74.1	MILL4	#3 Pebble Mill	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	Change control device description.
75	MILL5	#4 Pebble Mill	FE, BE (Bldg #11)	
75.1	MILL5	#4 Pebble Mill	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	Change control device description.
78	SCREW7	#3 Mill Discharge Screw Conveyor	FE, BE (Bldg #11), CF #11 (Mikropul CFH 40T-20-B)	
78.1	SCREW7	#3 Mill Discharge Screw Conveyor	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	Change control device description.
79	AIRSD8	Airslide for #4 Mill discharge	FE, BE (Bldg #11), CF #11 (Mikropul CFH 40T-20-B)	
79.1	AIRSD8	Airslide for #4 Mill discharge	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	Change control device description.
82	ELEV8	#3 Mill Elevator	FE, BE (Bldg #11), CF #11 (Mikropul CFH 40T-20-B)	
82.1	ELEV8	#3 Mill Elevator	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	Change control device description.
83	ELEV9	#4 Mill Elevator	FE, BE (Bldg #11), CF #11 (Mikropul CFH 40T-20-B)	
83.1	ELEV9	#4 Mill Elevator	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	Change control device description.
102	MILL7	#6 Pebble Mill	FE, BE (Bldg #11)	
102.1	MILL7	#6 Pebble Mill	FE, BE (Bldg #11), CF #12 (Mikropul CFH 40T-20-B)	Change control device name and description.
107	Microsizer #3	MS-20 Microsizer #3	CF #41 (Torit M/N DFT 2-4-155 (2C))	
107.1	Microsizer #3	MS-20 Microsizer #3	CF #42 (Torit M/N DFT 2-4-155 (2C))	Change control device name and description.

Table 2. List of Revisions to Attachment D

ID	Emission Unit Name	Emission Unit Description	Control Device Description	Comment
109	BE1	Ground Fines Bucket Elevator #1	CF #41 (Torit M/N DFT 2-4-155 (2C))	
109.1	ELEV22	Ground Fines Bucket Elevator #1	CF #41 (Torit M/N DFT 2-4-155 (2C))	Change emission unit ID.
110	BE2	CGS Elevator #2	CF #41 (Torit M/N DFT 2-4-155 (2C))	
110.1	ELEV24	CGS Elevator #2	CF #41 (Torit M/N DFT 2-4-155 (2C))	Change emission unit ID.
112	AS2	Airslide 2 for Ground Fines	CF #41 (Torit M/N DFT 2-4-155 (2C))	
112.1	AIRSD1	Airslide 2 for Ground Fines	CF #41 (Torit M/N DFT 2-4-155 (2C))	Change emission unit name.
205.1	AIRSD1	Generic EUID for Air Slides	FE	Added generic emission unit for air slides.
206.1	ELEV15	#9 Bucket Elevator	FE, BE (Bldg #11), CF #12 (Mikropul CFH 40T-20-B)	Added existing emission unit to Attachment D.
207.1	BIN2	Surge Bin	FE, BE (Bldg #11), CF #12 (Mikropul CFH 40T-20-B)	Added existing emission unit to Attachment D.
Screening and Unground Sand Processing				
121	LS01 (FE3)	Dust Suppression Hopper (DSH) System Load out Spout	CF #6 (Torit M/N 2DFA-155) with DSH	
121.1	LS01 (FE3)	Dust Suppression Hopper (DSH) System Load out Spout	ID, MD	Change control technique description.
133	SCREN10-13 & SCREN2-4	#71 through #74 Rotex Screens, Tyler Shaker and Hummer Machines (#'s 63-66 and #51)	Chutes and piping are totally enclosed, equipment also enclosed in Bldg. #7, M/N DFT4-32-SH Cartridge Filter	
133.1	SCREN10-13 & SCREN22-23 & SCREN4	SCREN10-13: #71 through #74 Rotex Screens, SCREN22-23: #61 and #62 Rotex Screens and SCREN4: Tyler Hummer Screen	Chutes and piping are totally enclosed, equipment also enclosed in Bldg. #7, M/N DFT4-32-SH Cartridge Filter	Revised emission unit description.
Classification (5/10/15/30/40 Micron)				
142	AIRSL12	Airslide from #1 Microsizers	FE, BE (Bldg #13), CF #11 (Mikropul CFH 40T-20-B)	
142.1	AIRSL12	Airslide and #1 MS-20 Microsizer	FE, BE (Bldg #13), CF #12 (Mikropul CFH 40T-20-B)	Revised emission unit description.
143	AIRSL13	Airslide from #2 Microsizers	FE, BE (Bldg #13), CF #12 (Mikropul CFH 40T-20-B)	
143.1	AIRSL13	Airslide and #2 MS-20 Microsizer	FE, BE (Bldg #13), CF #11 (Torit DFT 4-48)	Revised emission unit description.
146	PNEU4	#2 Macawber Pneumatic Pumping Station	FE, BE, CF #11 (Mikropul CFH 40T-20-B)	
146.1	PNEU4	#2 Macawber Pneumatic Pumping Station	FE, BE, CF #11 (Torit DFT 4-48)	Change control device description.
149	#1 Microsizer Feed Bins	#1 Microsizer feed bin	FE, BE, CF #11 (Mikropul CFH 40T-20-B)	Delete this equipment from Attachment D.
150	#2 Microsizer Feed Bins	#2 Microsizer feed bin	FE, BE, CF #12 (Mikropul CFH 40T-20-B)	Delete this equipment from Attachment D.
208.1	PNEU1	#3 Macawber Pneumatic Pumping Station	CF #42 (Torit M/N DFT 2-4-155 (2C))	Added existing emission unit to Attachment D.
5 Micron Classification				
151	ELEV16	5 Micron Feed Elevator (7S)	FE, BE, CF #11 (Mikropul CFH 40T-20-B)	
151.1	ELEV16	5 Micron Feed Elevator (7S)	FE, BE, CF #11 (Torit DFT 4-48)	Change control device description.
156	BIN4	Bulk Storage Loading Bin (2S)	CF #38 (Mikropul M/N CFH 18-20-V-B (1C))	
156.1	BIN4	Bulk Storage Loading Bin and Loadout	CF #38 (Mikropul M/N CFH	Revised emission unit description.

Table 2. List of Revisions to Attachment D

ID	Emission Unit Name	Emission Unit Description	Control Device Description	Comment
		Spout (2S)	18-20-V-B (1C))	
157	"Stone Container" Bagger Bin	"Stone Container" Bagger Bin (4S)	FE, BE, CF #38 (Mikropul M/N CFH 18-20-V-B (1C))	
157.1	MIN-U-SIL Bagger Bin	Bagger Bin (4S)	FE, BE, CF #38 (Mikropul M/N CFH 18-20-V-B (1C))	Revised emission unit name and description.
158	PACKR7	"Stone Container" Bagger (5S)	FE, BE, CF #38 (Mikropul M/N CFH 18-20-V-B (1C))	
158.1	PACKR7	MIN-U-SIL Bagger (5S)	FE, BE, CF #38 (Mikropul M/N CFH 18-20-V-B (1C))	Revised emission unit description.
159	PEMCO Elevator	PEMCO Elevator/FCP Tanks and Bulk Loadout Spout (3S1)	FE, CF #13 (Torit DF-T3-24)	
159.1	ELEV23	PEMCO Elevator/CGS Tanks and Bulk Loadout Spout (3S1)	FE, CF #13 (Torit DF-T3-24)	Change emission unit name and description.
161	PACKR3	#1 Autobagger and Feed Bin CF #20 - Torit Fabric Filter. Model No. 4DF32-55	FE, BE (Bldg #14), CF #20 (Torit DF-T4-16)	
161.1	PACKR3	#1 Autobagger and Feed Bin	FE, BE (Bldg #14), CF #20 (Torit DF-T4-16)	Revised emission unit description.
Storage Structures				
163	Tank #7 & Tank #8	Storage Tanks #7 and #8 at the New Screen Tower	MD, CF #6 (Torit M/N 4DF-48)	
163.1	Tanks #7 & #15	Storage Tank #7 intervented to Tank #15 at the New Screen Tower	particle size, PE, CF #7 (M/N DFT4-32-SH)	Recharacterization of tanks #7 and #15. No physical changes have resulted from this revision.
163.2	Tanks #8 & #16	Storage Tank #8 intervented to Tank #16 at the New Screen Tower.	particle size, PE, CF #7 (M/N DFT4-32-SH)	Recharacterization of tanks #8 and #16. ExistingtTank #16 has been added to Attachment D. No physical changes have resulted from this revision.
164	Tanks #13 & #17	Storage tanks #13 and #17 at the New Screen Tower	particle size, PE, CF #7 (M/N DFT4-32-SH)	
164.1	Tanks #13 & #17	Storage tank #13 intervented to #17 at the New Screen Tower	particle size, PE, CF #7 (M/N DFT4-32-SH)	Recharacterization of tanks #13 and #17. No physical changes have resulted from this revision.
166	Tanks #14 & #18	Storage tanks #14 and #18 at the New Screen Tower	particle size, PE, MD	
166.1	Tanks #14 & #18	Storage Tank #14 intervented to Tank #18 at the New Screen Tower	particle size, PE, CF #7 (M/N DFT4-32-SH)	Recharacterization of tanks #14 and #18. No physical changes have resulted from this revision.
168	FCPTank	FCP Tank	FE, CF #13 (Torit DF-T3-24)	
168.1	CGSTank	CGS Tank	FE, CF #13 (Torit DF-T3-24)	Change emission unit name and description.
172	Minusil storage silos #6, #7 & #8 (6e & E1)	#6, #7 and #8 Silos	FE, CF #28 (Torit DF-2D-F4)	
172.1	MIN-U-SIL storage silos #6 & #7 (6e & E1)	#6 and #7 Silos	FE, CF #28 (Torit DF-2D-F4)	Separated Silo #6 and #7 from the emission group.
172.2	MIN-U-SIL storage silo #8 (6e & E1)	#8 Silo	FE, CF #28 (Torit DF-2D-F4)	Separated Silo #8 out from the emission group.
173	Concrete Storage Tank	Concrete Tank at the Float Plant	FE, CF #9 (Torit 4 DFT 32-155)	
173.1	ISTANK18	Concrete Tank at the Float Plant	FE, CF #9 (Torit 4 DFT 32-155)	Revised emission unit name.
177	SPOUT3	DCL Loadout Spout (SPOUT3)	PE, MD, CF #27 (Torit DF-T2-8)	
177.1	SPOUT3	DCL Loadout Spout (SPOUT3)	FE, CF #33 (Torit DF-T4-16)	Change control device name and description.
180	SPOUT6	PEMCO/DCL Loadout System (SPOUT6)	PE, MD, CF #13 (Torit DF-T3-24)	
180.1	SPOUT6	CGS/DCL Loadout System (SPOUT6)	PE, MD, CF #13 (Torit DF-T3-24)	Change emission unit description.
181	QROK SPOUTS	Q ROK Bulk Loading Spouts	CF #6 (Torit M/N 2DFA-155)	
181.1	QROK SPOUTS (1)	Q ROK Bulk Loading Spouts (1)	MD, ID, Inherent design lowers fugitive emissions	Revised emission unit name and control device description.

Table 2. List of Revisions to Attachment D

ID	Emission Unit Name	Emission Unit Description	Control Device Description	Comment
181.2	QROK SPOUTS (2)	Q ROK Bulk Loading Spouts (2)	MD, ID, Inherent design lowers fugitive emissions	Added existing emission unit to Attachment D.
203.1	#1 Stone Tank	#1 Stone Tank (Inside Building)	BE	Added existing emission unit to Attachment D.
204.1	#2 Stone Tank	#2 Stone Tank (Inside Building)	BE	Added existing emission unit to Attachment D.

Table 3. Revisions to Attachment E - Emission Unit Forms

Section No.	Description	Comment
All	Requirements, Testing, Monitoring and Recordkeeping Requirements	Updated to reflect the most recent version of the Title V Operating Permit R30-06500001-2008 (MM01).

Table 4. Revisions to Attachment G - Air Pollution Control Device Forms

Section No.	Description	Comment
All	Control Device CF #11	Form has been revised to reflect the exempt permit changes (PD12-007) from a Micropul CFH 40T-20-B to a Donaldson Torit DFT 4-48.

Table 4. Revisions to Attachment H - Compliance Assurance Monitoring (CAM) Plans

Section No.	Description	Comment
All	Control Device CF #11	An Attachment H has been updated to reflect the exempt permit changes (PD12-007) from a Micropul CFH 40T-20-B to a Donaldson Torit DFT 4-48. The CAM plan has been submitted to reflect the change in the pressure drop monitoring range from 2.0 - 3.5 inches of water column to 0.5 - 6.0 inches of water column.

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY
601 57th Street SE
Charleston, WV 25304
Phone: (304) 926-0475
www.dep.wv.gov/daq

INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

1. **Name of Applicant (As registered with the WV Secretary of State's Office):** U.S. Silica Company	**2. Facility Name or Location:** Berkeley Springs Plant
3. DAQ Plant ID No.: 065—00001	**4. Federal Employer ID No. (FEIN):** 23-0958670

5. **Permit Application Type:**

☐ Initial Permit — When did operations commence? MM/DD/YYYY
☒ Permit Renewal — What is the expiration date of the existing permit? 12/30/2013
☐ Update to Initial/Renewal Permit Application

6. Type of Business Entity:

☒ Corporation ☐ Governmental Agency ☐ LLC
☐ Partnership ☐ Limited Partnership

8. Number of onsite employees: 85

7. Is the Applicant the:

☐ Owner ☐ Operator ☒ Both

If the Applicant is not both the owner and operator, please provide the name and address of the other party.

_____
_____
_____

9. Governmental Code:

☐ Privately owned and operated; 0
☐ Federally owned and operated; 1
☐ State government owned and operated; 2
☐ County government owned and operated; 3
☐ Municipality government owned and operated; 4
☐ District government owned and operated; 5

10. Business Confidentiality Claims

Does this application include confidential information (per 45CSR31)? ☐ Yes ☒ No

If yes, identify each segment of information on each page that is submitted as confidential, and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's *"PRECAUTIONARY NOTICE-CLAIMS OF CONFIDENTIALITY"* guidance.

11. Mailing Address		
Street or P.O. Box: P.O. Box 187		
City: Berkeley Springs	**State:** West Virginia	**Zip:** 25411
Telephone Number: (304) 258-2500	**Fax Number:** (304) 258-8293	

12. Facility Location				
Street: Route 522 North		**City:** Berkeley Springs		**County:** Morgan
UTM Easting: 739.55	km	**UTM Northing:** 4393.48	km	**Zone:** ☒ 17 or ☐ 18
Directions: Three miles north of Berkeley Springs off of Route 522.				
Portable Source? ☐ Yes ☒ No				
Is facility located within a nonattainment area? ☐ Yes ☒ No				**If yes, for what air pollutants?** Maryland Pennsylvania
Is facility located within 50 miles of another state? ☒ Yes ☐ No				**If yes, name the affected state(s).**
Is facility located within 100 km of a Class I Area[1]? ☐ Yes ☒ No **If no, do emissions impact a Class I Area[1]?** ☐ Yes ☒ No				**If yes, name the area(s).**

[1] *Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.*

13. Contact Information		
Responsible Official: Michael L. Winkler		**Title:** Vice President of Operations , U.S. Silica Company
Street or P.O. Box: 180 N. LaSalle Street, Suite 2890		
City: Chicago	**State:** IL	**Zip:** 60601
Telephone Number: (312) 589-7539	**Fax Number:** (312) 629-1494	
E-mail address: winklerm@ussilica.com		
Environmental Contact: Carol Hudak		**Title:** Environment Project Manager
Street or P.O. Box: 8490 Progress Drive, Suite 300		
City: Frederick	**State:** MD	**Zip:** 21701-4996
Telephone Number: (301) 682-0614	**Fax Number:** (301) 694-2867	
E-mail address: hudak@ussilica.com		
Application Preparer: Robert Finlayson		**Title:** Environmental Consultant
Company: Industrial Compliance Solutions		
Street or P.O. Box: 141 East James Street		
City: Columbus	**State:** WI	**Zip: 53925-**
Telephone Number: (920) 623-3623	**Fax Number:** (920) 623-3740	
E-mail address: rkfinlayson@att.net		

14. Facility Description

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC
Industrial Sand Mining and Processing	Silica Sand Products	212322	1446

Provide a general description of operations.

Sandstone is mined and processed into unground, ground and micronized silica sand products. Processes include the following:

Mining
Crushing
Screening
Drying
Milling
Classification
Packaging and Bulk Loading

15. Provide an **Area Map** showing plant location as **ATTACHMENT A**.

16. Provide a **Plot Plan(s)**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as **ATTACHMENT B**. For instructions, refer to "Plot Plan - Guidelines."

17. Provide a detailed **Process Flow Diagram(s)** showing each process or emissions unit as **ATTACHMENT C**. Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

Section 2: Applicable Requirements

18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
☒ SIP	☐ FIP
☐ Minor source NSR (45CSR13)	☐ PSD (45CSR14)
☐ NESHAP (45CSR15)	☐ Nonattainment NSR (45CSR19)
☒ Section 111 NSPS	☐ Section 112(d) MACT standards
☐ Section 112(g) Case-by-case MACT	☐ 112(r) RMP
☐ Section 112(i) Early reduction of HAP	☐ Consumer/commercial prod. reqts., section 183(e)
☐ Section 129 Standards/Reqts.	☐ Stratospheric ozone (Title VI)
☐ Tank vessel reqt., section 183(f)	☐ Emissions cap 45CSR§30-2.6.1
☐ NAAQS, increments or visibility (temp. sources)	☐ 45CSR27 State enforceable only rule
☒ 45CSR4 State enforceable only rule	☐ Acid Rain (Title IV, 45CSR33)
☐ Emissions Trading and Banking (45CSR28)	☒ **C**ompliance **A**ssurance **M**onitoring (40CFR64)
☐ CAIR NO_x Annual Trading Program (45CSR39)	☐ CAIR NO_x Ozone Season Trading Program (45CSR40)
☐ CAIR SO_2 Trading Program (45CSR41)	

19. Non Applicability Determinations
List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.
☐ Permit Shield

19. Non Applicability Determinations *(Continued)* - *Attach additional pages as necessary.*

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

☐ Permit Shield

20. Facility-Wide Applicable Requirements

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*).

R30-06500001-2008 (SM01) 3.1.1. Open burning. The open burning of refuse by any person is prohibited except as noted in 45CSR§6-3.1. [45CSR§6-3.1.]

R30-06500001-2008 (SM01) 3.1.2. Open burning exemptions. The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause or allow any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible. [45CSR§6-3.2.]

R30-06500001-2008 (SM01) 3.1.3. Asbestos. The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescri bed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them. [40 C.F.R. §61.145(b) and 45CSR34]

R30-06500001-2008 (SM01) 3.1.4. Odor. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public. [45CSR§4-3.1 State-Enforceable only.]

R30-06500001-2008 (SM01) 3.1.5. Standby plan for reducing emissions. When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11. [45CSR§11-5.2]

R30-06500001-2008 (SM01) 3.1.6. Emission inventory. The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality. [W.Va. Code § 22-5-4(a)(14)]

R30-06500001-2008 (SM01) 3.1.7. Ozone-depleting substances. For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. 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 prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161. [40 C.F.R. 82, Subpart F]

R30-06500001-2008 (SM01) 3.1.8. Risk Management Plan. Should this stationary source, as defined in 40 C.F.R. § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. § 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71. [40 C.F.R. 68]

R30-06500001-2008 (SM01) 3.1.9. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in 45CSR§7-3.2. [45CSR§7-3.1] [45CSR13, R13-0715, B.3]

R30-06500001-2008 (SM01) 3.1.10. No person shall cause, suffer, allow or permit visible emissions from any storage structure(s) associated with any manufacturing process(es) that pursuant to 45CSR§7-5.1 is required to have a full enclosure and be equipped with a particulate matter control device. [45CSR§7-3.7] [45CSR13, R13-0715, B.3]

R30-06500001-2008 (SM01) 3.1.11. No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A found at the end of 45CSR7. [45CSR§7-4.1] [45CSR13, R13-0715, B.3]

R30-06500001-2008 (SM01) 3.1.12. No person shall circumvent the provisions of this rule by adding additional gas to any exhaust or group of exhausts for the purpose of reducing the stack gas concentration. [45CSR§7-4.3]

R30-06500001-2008 (SM01) 3.1.13. No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable. [45CSR§7-5.1] [45CSR13, R13-0715, B.3]

R30-06500001-2008 (SM01) 3.1.14. The owner or operator of a plant shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment. [45CSR§7-5.2] [45CSR13, R13-0715, B.3]

For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/ reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements

R30-06500001-2008 (SM01) 3.2.1. Each Process Source Operation (See Note below) with a visible emissions limit contained in this permit shall be observed visually at least each calendar week during periods of normal facility operation for a sufficient time interval to determine if the unit has any visible emissions using 40 C.F.R. 60 Appendix A, Method 22. If visible emissions from any of the Process Source Operation are observed during these weekly observations, or at any other time, that appear to exceed the allowable visible emission requirement for the Process Source Operation, visible emissions evaluations in accordance with 45CSR7A shall be conducted as soon as practicable, but no later than one month from the time of the observation. A visible emissions evaluations in accordance with 45CSR7A shall not be required under condition Section 3.2.1 if the visible emissions condition is corrected in a timely manner; the Process Source Operation is operating at normal operating conditions; and, the

cause and corrective measures taken are recorded. [45CSR§30-5.1.c.]

If the initial, or any subsequent, visible emissions evaluation indicates visible emissions in excess of the allowable visible emission requirements for a given Process Source Operation, a visible emissions evaluation shall be performed for that unit at least once every consecutive 14-day period in accordance with 45CSR7A. If subsequent visible emissions evaluations indicate visible emissions less than the allowable visible emission requirement for the Process Source Operation for three consecutive evaluation periods, the Process Source Operation may comply with the visible emissions testing requirements of condition 3.2.1 in lieu of those established in this condition. [45CSR§30-5.1.c.]

The permittee shall maintain records indicating the use of any dust suppressants or any other suitable dust control measures applied at the facility. The permittee shall also inspect all fugitive dust control systems monthly to ensure that they are operated and maintained in conformance with their designs. The permittee shall maintain records of all scheduled and non-scheduled maintenance and shall state any maintenance or corrective actions taken as a result of the monthly inspections, the times the fugitive dust control system(s) were inoperable and any corrective actions taken.

Preventive maintenance inspections of potential fugitive dust sources, such as outdoor conveying systems, transfer points, and bulk loadouts will be conducted on a periodic basis by operations personnel. This is in addition to the monthly inspections required above.

Parking lots, roadways, other vehicle travel areas, and storage piles will be regularly observed by trained personnel to determine the need for fugitive dust control. A water truck must be available for control of dust on roadways and parking lots on an as needed basis. The water truck will be included in the facility's preventive maintenance program. Dates of water truck usage will be provided on the Pre-Shift Inspection Reports maintained by the Quarry office.

U.S. Silica shall keep all maintenance and preventive maintenance records via a mainframe computer system. [45CSR§30-5.1.c.]

Testing Requirements

Stack testing. As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.

The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit.

All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to

observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

The permittee shall submit a report of the results of the stack test within 60 days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:

The permit or rule evaluated, with the citation number and language.

The result of the test for each permit or rule condition.

A statement of compliance or non-compliance with each permit or rule condition.

[WV Code § 22-5-4(a)(14-15) and 45CSR13]

R30-06500001-2008 (SM01) 3.3.2. Except as provided in the terms and conditions of specific emission units, the permittee shall conduct stack tests upon request by Director, establish parameter indicator ranges, and furnish the Secretary a written report of the results of such testing and established indicator ranges. The permittee shall use Method 5 or an alternative method approved by the Secretary for such testing. For wet scrubber control devices, parameter indicator ranges shall be established for the water pressure to the control equipment and the pressure loss of the inlet airflow to the scrubber. The permittee shall establish parameter indicator ranges and operate within these ranges to provide a reasonable assurance that the emission unit is in compliance with opacity and particulate loading limits. The permittee shall take immediate corrective action when a parameter falls outside the indicator range established for that parameter and shall record the cause and corrective measures taken. The permittee shall also record the following parameters during such testing:

a. Opacity readings on the exhaust stack following the procedures of 45CSR7A;
b. Amount of material processed;
c. Water pressure to the control equipment; and
d. Pressure loss of the inlet airflow to the scrubber. The pressure drop will be measured between the inlet airflow to the scrubber and outlet airflow of the scrubber, which is atmospheric loss through the venturi constriction of the control equipment.

These records shall be maintained on site and in accordance with 3.4.2.
[45CSR§30-5.1.c.]

R30-06500001-2008 (SM01) 3.3.3. At such reasonable times as the Director may designate, the operator of any manufacturing process source operation may be required to conduct or have conducted stack tests to determine the particulate matter loading in exhaust gases. Such tests shall be conducted in such manner as the Director may specify and be filed on forms and in a manner acceptable to the Director. The Director, or his duly authorized representative, may at his option witness or conduct such stack tests. Should the Director exercise his option to conduct such tests, the operator will provide all the necessary sampling connections and sampling ports to be located in such manner as the Director may require, power for test equipment and the required safety equipment such as scaffolding, railings and ladders to comply with generally accepted good safety practices. [45CSR§7-8.1]

R30-06500001-2008 (SM01) 3.3.4. The Director, or his duly authorized representative, may conduct such other tests as he or she may deem necessary to evaluate air pollution emissions. [45CSR§7-8.2]

Recordkeeping Requirements

R30-06500001-2008 (SM01) 3.4.1. Monitoring information. The permittee shall keep records of monitoring information that include the following:

a. The date, place as defined in this permit and time of sampling or measurements;

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 the analyses; and

f. The operating conditions existing at the time of sampling or measurement.

[45CSR§30-5.1.c.2.A.] [45CSR13, R13-2145, 4.4.1.] (SCREN 7-9, 14-15; BE01; BE02; LS01; CF #36; CF #6)

R30-06500001-2008 (SM01) 3.4.2. Retention of records. The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records. [45CSR§30-5.1.c.2.B.][45CSR13, R13-0715, A.11; R13-2595, B.9]

R30-06500001-2008 (SM01) 3.4.3. Odors. For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken. [45CSR§30-5.1.c. State-Enforceable only.]

R30-06500001-2008 (SM01) 3.4.4. A record of each visible emissions observation shall be maintained, including any data required by 40 C.F.R. 60 Appendix A, Method 22 or Method 9, whichever is appropriate. The record shall include, at a minimum, the date, time, name of the emission unit, the applicable visible emissions requirement, the results of the observation, and the name of the observer. Records shall be maintained on site for a period of no less than five (5) years stating any maintenance or corrective actions taken as a result of the weekly inspections, and the times the fugitive dust control system(s) are inoperable and any corrective actions taken. [45CSR§30-5.1.c.]

Reporting Requirements

R30-06500001-2008 (SM01) 3.5.1. Responsible official. Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete. [45CSR§§30-4.4. and 5.1.c.3.D.]

R30-06500001-2008 (SM01) 3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31. [45CSR§30-5.1.c.3.E.]

R30-06500001-2008 (SM01) 3.5.3. Except for the electronic submittal of the annual certification to the USEPA as required in 3.5.5. below, all notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, mailed first class or by private carrier with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

R30-06500001-2008 (SM01) 3.5.4. Certified emissions statement. The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. [45CSR§30-8.]

R30-06500001-2008 (SM01) 3.5.5. Compliance certification. The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The annual certification to the USEPA shall be submitted in electronic format only. It shall be submitted by e-mail to the following address: R3_APD_Permits@epa.gov. The permittee shall maintain a copy of the certification on site for five (5) years

from submittal of the certification. [45CSR§30-5.3.e.]

R30-06500001-2008 (SM01) 3.5.6. Semi-annual monitoring reports. The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4. [45CSR§30-5.1.c.3.A.]

R30-06500001-2008 (SM01) 3.5.7. Emergencies. For reporting emergency situations, refer to Section 2.17 of this permit.

R30-06500001-2008 (SM01) 3.5.8. Deviations.

a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:

Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.

Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.

Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.

All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken. [45CSR§30-5.1.c.3.C.]

b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary. [45CSR§30-5.1.c.3.B.]

R30-06500001-2008 (SM01) 3.5.9. New applicable requirements. If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement. [45CSR§30-4.3.h.1.B.]

☒ Permit Shield

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

21. Active Permits/Consent Orders		
Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit *(if any)*
R13-2595	September 20, 2004	
R13-0715F	December 11, 2003	
R13-750	June 14, 1984	
R13-1970	August 13, 1997	
R13-991	April 12, 1988	
R13-1917	December 22, 1995	
R13-2015C	November 20, 2009	
R13-2145C	October 22, 2012	
R13-2423A	August 29, 2003	
R13-2299A	August 29, 2003	
R13-2595	September 20, 2004	

22. Inactive Permits/Obsolete Permit Conditions		
Permit Number	Date of Issuance	Permit Condition Number
	MM/DD/YYYY	
	/ /	
	/ /	
	/ /	
	/ /	
	/ /	
	/ /	

Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	13.75
Nitrogen Oxides (NO_X)	96.35
Lead (Pb)	0.00082
Particulate Matter ($PM_{2.5}$)[1]	191
Particulate Matter (PM_{10})[1]	1033
Total Particulate Matter (TSP)	2296
Sulfur Dioxide (SO_2)	267
Volatile Organic Compounds (VOC)	1.27
Hazardous Air Pollutants[2]	Potential Emissions
All	negligible
Regulated Pollutants other than Criteria and HAP	Potential Emissions

[1] $PM_{2.5}$ and PM_{10} are components of TSP.
[2] For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.

Section 4: Insignificant Activities

24. Insignificant Activities (Check all that apply)		
☒	1.	Air compressors and pneumatically operated equipment, including hand tools.
☐	2.	Air contaminant detectors or recorders, combustion controllers or shutoffs.
☒	3.	Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
☒	4.	Bathroom/toilet vent emissions.
☒	5.	Batteries and battery charging stations, except at battery manufacturing plants.
☒	6.	Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
☐	7.	Blacksmith forges.
☐	8.	Boiler water treatment operations, not including cooling towers.
☒	9.	Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
☐	10.	CO_2 lasers, used only on metals and other materials which do not emit HAP in the process.
☒	11.	Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
☐	12.	Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
☒	13.	Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
☐	14.	Demineralized water tanks and demineralizer vents.
☒	15.	Drop hammers or hydraulic presses for forging or metalworking.
☒	16.	Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
☐	17.	Emergency (backup) electrical generators at residential locations.
☒	18.	Emergency road flares.
☒	19.	Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO_x, SO_2, VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units. Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis: All organic liquid tanks listed in Attachment D
☐	20.	Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27. Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis: _____
☐	21.	Environmental chambers not using hazardous air pollutant (HAP) gases.
☒	22.	Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
☐	23.	Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
☒	24.	Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
☐	25.	Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
☒	26.	Fire suppression systems.
☐	27.	Firefighting equipment and the equipment used to train firefighters.

24. Insignificant Activities (Check all that apply)		
☐	28.	Flares used solely to indicate danger to the public.
☒	29.	Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
☐	30.	Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
☒	31.	Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
☐	32.	Humidity chambers.
☐	33.	Hydraulic and hydrostatic testing equipment.
☒	34.	Indoor or outdoor kerosene heaters.
☒	35.	Internal combustion engines used for landscaping purposes.
☐	36.	Laser trimmers using dust collection to prevent fugitive emissions.
☐	37.	Laundry activities, except for dry-cleaning and steam boilers.
☐	38.	Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
☐	39.	Oxygen scavenging (de-aeration) of water.
☐	40.	Ozone generators.
☒	41.	Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
☒	42.	Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
☐	43.	Process water filtration systems and demineralizers.
☒	44.	Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
☒	45.	Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
☒	46.	Routing calibration and maintenance of laboratory equipment or other analytical instruments.
☐	47.	Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
☐	48.	Shock chambers.
☐	49.	Solar simulators.
☒	50.	Space heaters operating by direct heat transfer.
☒	51.	Steam cleaning operations.
☐	52.	Steam leaks.
☐	53.	Steam sterilizers.
☐	54.	Steam vents and safety relief valves.
☒	55.	Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
☒	56.	Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
☐	57.	Such other sources or activities as the Director may determine.
☐	58.	Tobacco smoking rooms and areas.
☐	59.	Vents from continuous emissions monitors and other analyzers.

Section 5: Emission Units, Control Devices, and Emission Points

25. Equipment Table
Fill out the **Title V Equipment Table** and provide it as **ATTACHMENT D**.
26. Emission Units
For each emission unit listed in the **Title V Equipment Table**, fill out and provide an **Emission Unit Form** as **ATTACHMENT E**.
For each emission unit not in compliance with an applicable requirement, fill out a **Schedule of Compliance Form** as **ATTACHMENT F**.
27. Control Devices
For each control device listed in the **Title V Equipment Table**, fill out and provide an **Air Pollution Control Device Form** as **ATTACHMENT G**.
For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the **Compliance Assurance Monitoring (CAM) Form(s)** for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as **ATTACHMENT H**.

Section 6: Certification of Information

28. Certification of Truth, Accuracy and Completeness and Certification of Compliance

*Note: This Certification must be signed by a responsible official. The **original**, signed in **blue ink**, must be submitted with the application. Applications without an **original** signed certification will be considered as incomplete.*

a. Certification of Truth, Accuracy and Completeness

I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.

b. Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

Responsible official (type or print)

Name: Michael L. Winkler	Title: Vice President of Operations

Responsible official's signature:

Signature: _____ Signature Date: _____

(Must be signed and dated in blue ink)

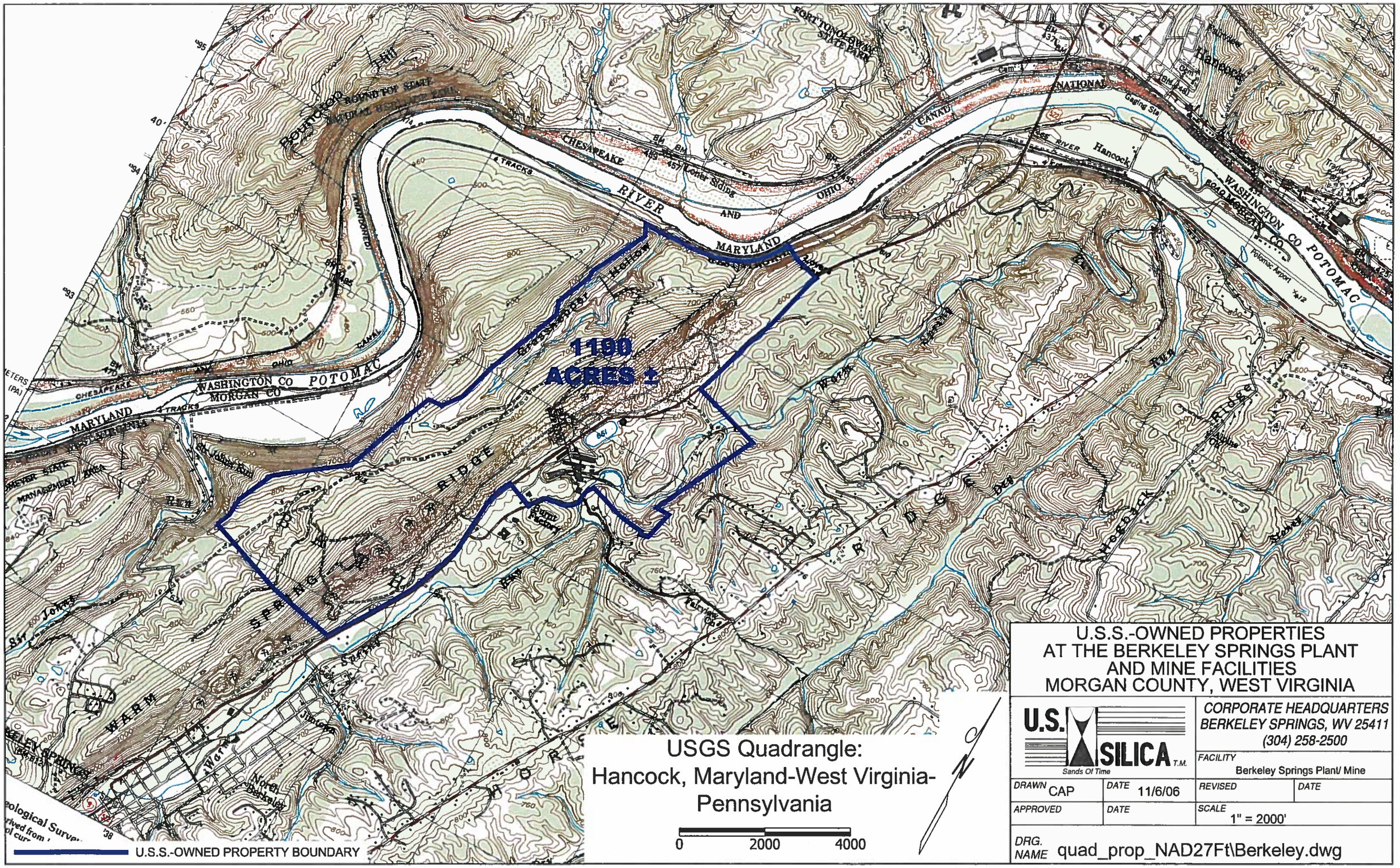
Note: Please check all applicable attachments included with this permit application:

☒	ATTACHMENT A: Area Map
☒	ATTACHMENT B: Plot Plan(s)
☒	ATTACHMENT C: Process Flow Diagram(s)
☒	ATTACHMENT D: Equipment Table
☒	ATTACHMENT E: Emission Unit Form(s)
☒	ATTACHMENT F: Schedule of Compliance Form(s)
☒	ATTACHMENT G: Air Pollution Control Device Form(s)
☒	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

All of the required forms and additional information can be found and downloaded from, the DEP website at www.dep.wv.gov/daq, requested by phone (304) 926-0475, and/or obtained through the mail.

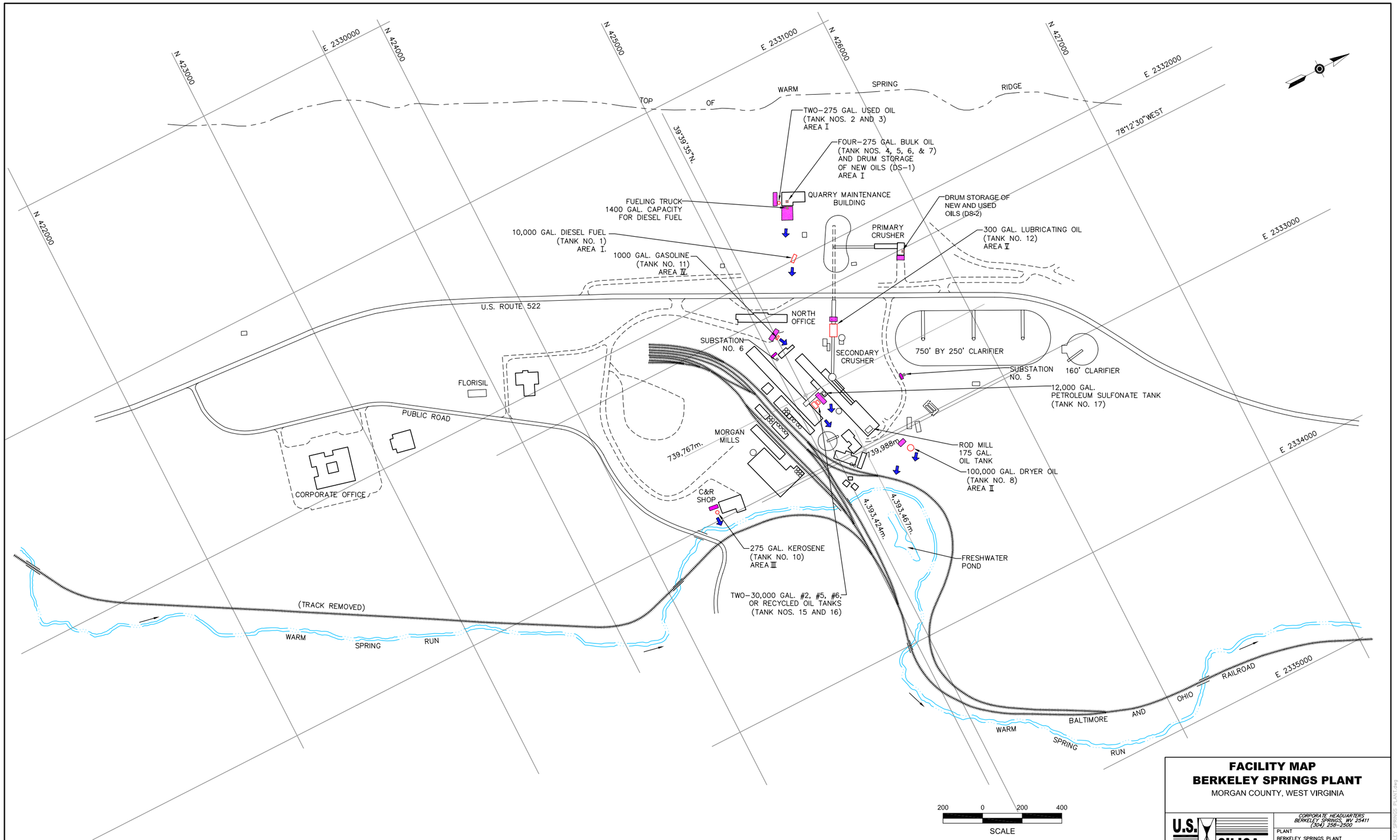
Attachment A

Area Map


1100
ACRES ±
U.S.S.-OWNED PROPERTY BOUNDARY
USGS Quadrangle:
Hancock, Maryland-West Virginia-
Pennsylvania
0
2000
4000
N
U.S.S.-OWNED PROPERTIES
AT THE BERKELEY SPRINGS PLANT
AND MINE FACILITIES
MORGAN COUNTY, WEST VIRGINIA
U.S. SILICA T.M.
Sands Of Time
CORPORATE HEADQUARTERS
BERKELEY SPRINGS, WV 25411
(304) 258-2500
FACILITY
Berkeley Springs Plant/ Mine
DRAWN CAP
DATE 11/6/06
REVISED
DATE
APPROVED
DATE
SCALE
1" = 2000'
DRG. NAME quad_prop_NAD27Ft\Berkeley.dwg

Attachment B

Plot Plan



LEGEND

GROUND SURFACE FLOW DIRECTION

PETROLEUM PRODUCT UNLOADING AREAS

NO.	DESCRIPTION	BY	DATE
2	REVISE TANK 12 CAPACITY; ADD RODMILL OIL TANK; REMOVE TANK #9	CAP	12/10/09
1	ADD/REVISE TANKS/TANK LABELS; SHOW FRESHWATER POND; ADD GROUND SURFACE FLOW DIRECTION ARROWS	CAP	1/3/07

REVISIONS | REFERENCES

FACILITY MAP
BERKELEY SPRINGS PLANT
MORGAN COUNTY, WEST VIRGINIA

U.S. SILICA — Sands of Time

CORPORATE HEADQUARTERS
BERKELEY SPRINGS, WV 25411
(304) 258-2500

PLANT: BERKELEY SPRINGS PLANT
PROJECT NO.: 1604098

DRAWN	DATE	SCALE	PAR NO.
JRG	5/3/04	1" = 200'	
APPROVED	DATE		
DWP			

DRG. NO. **WV-MO 020-2**

Attachment C

Process Flow Diagrams

Figure 1. Primary and Secondary Crushing

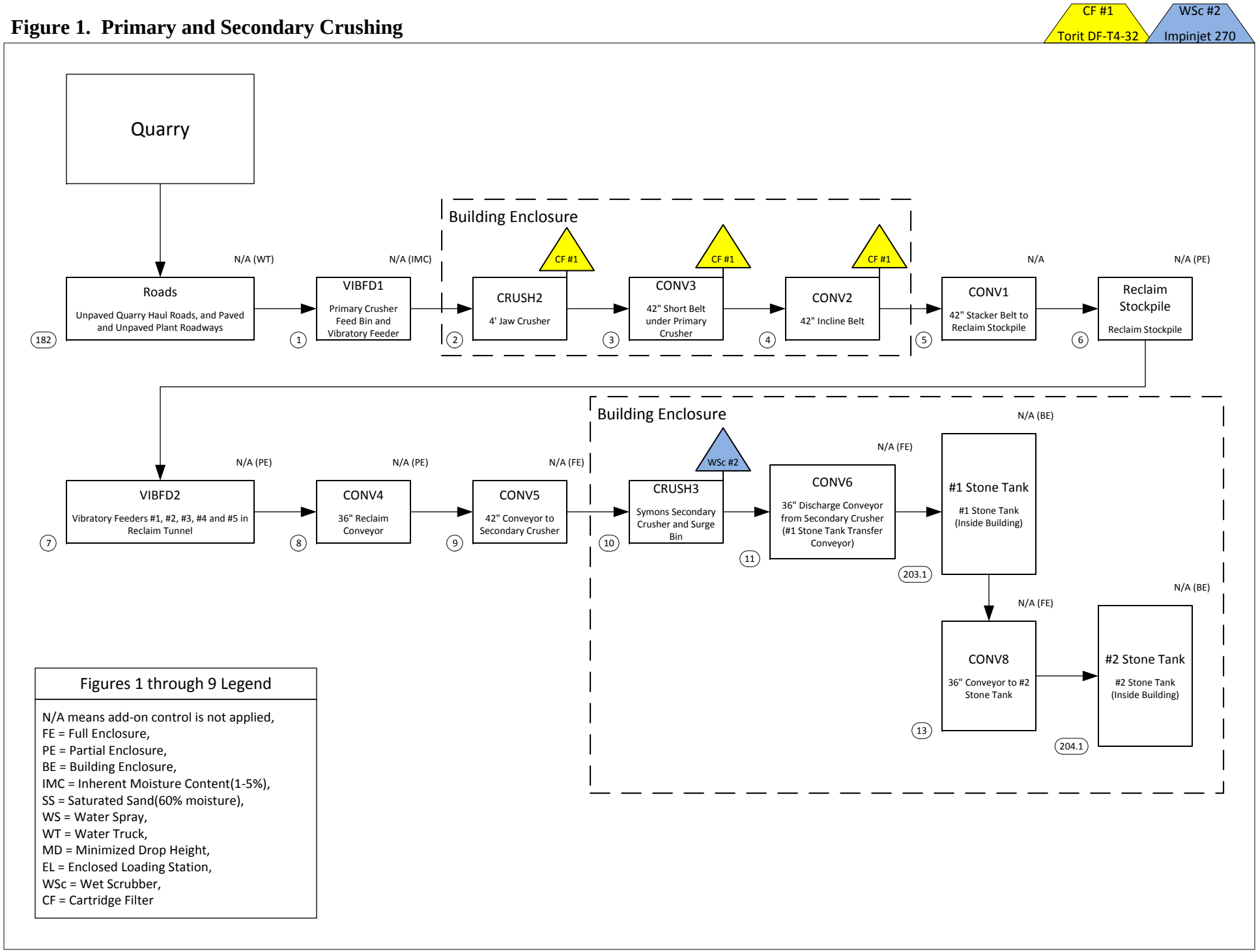


Figure 2. Wet Processing Plant (Rod Mill Building)

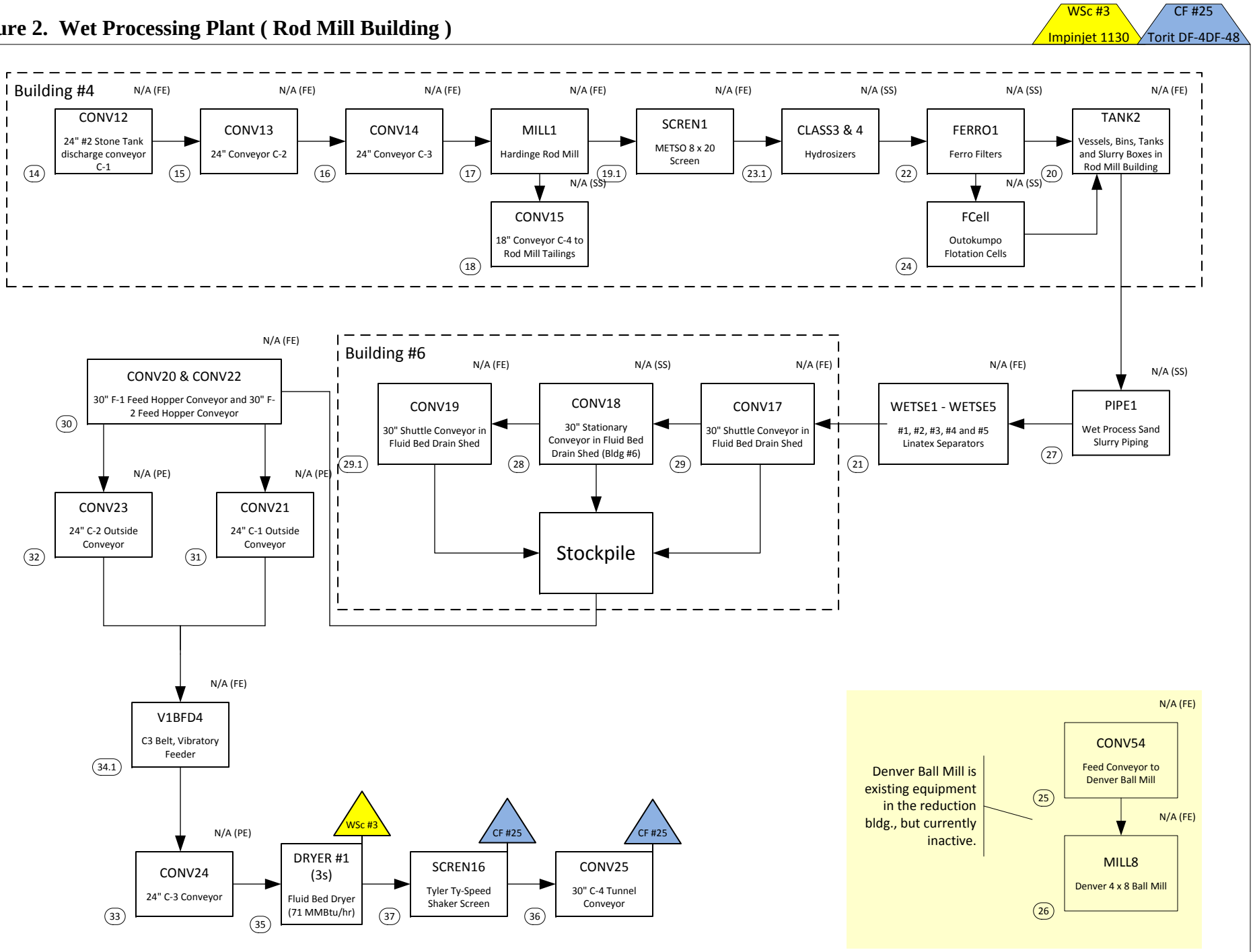


Figure 3. Wet Float System

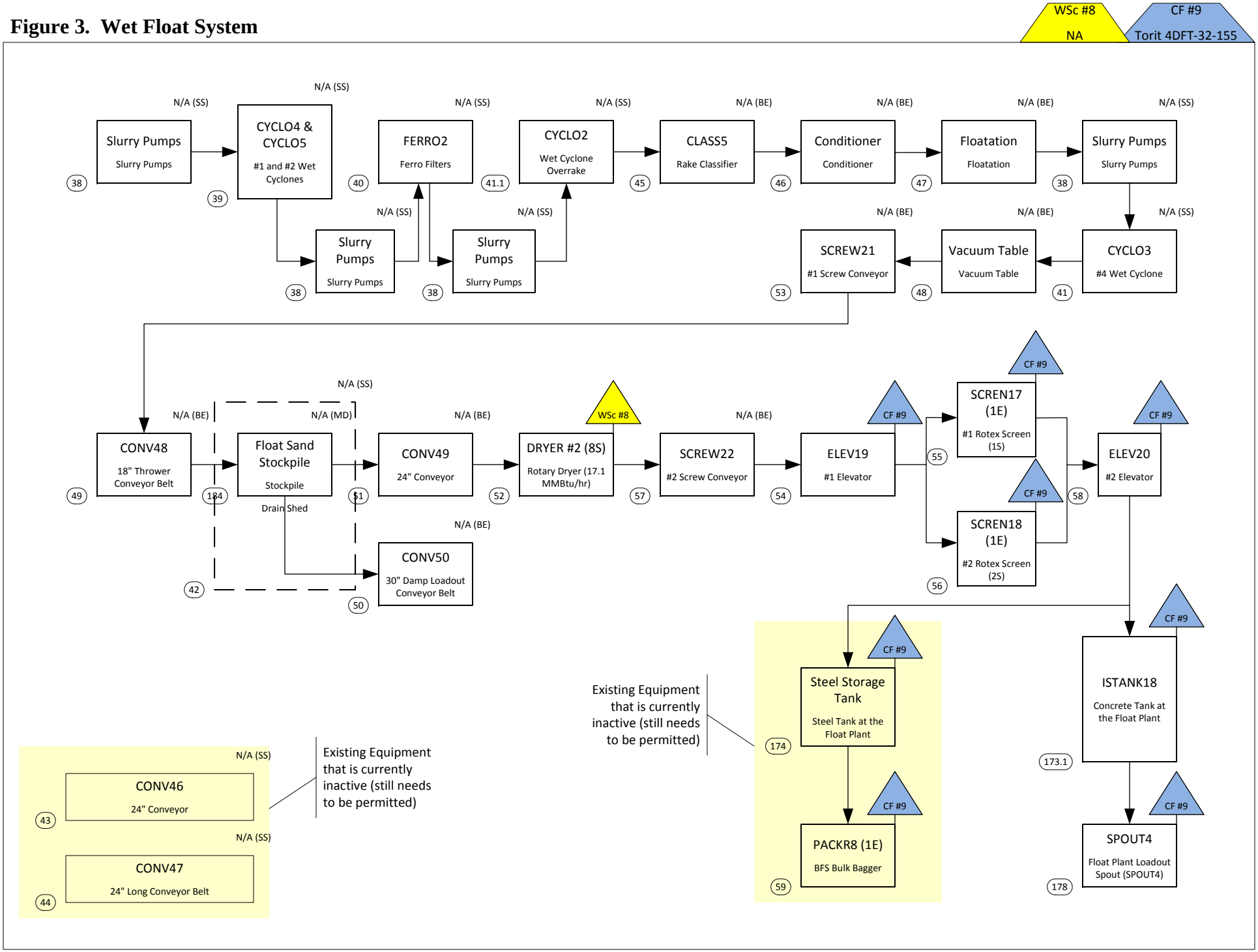


Figure 4. Screening and Unground Sand Processing (6-4-13)

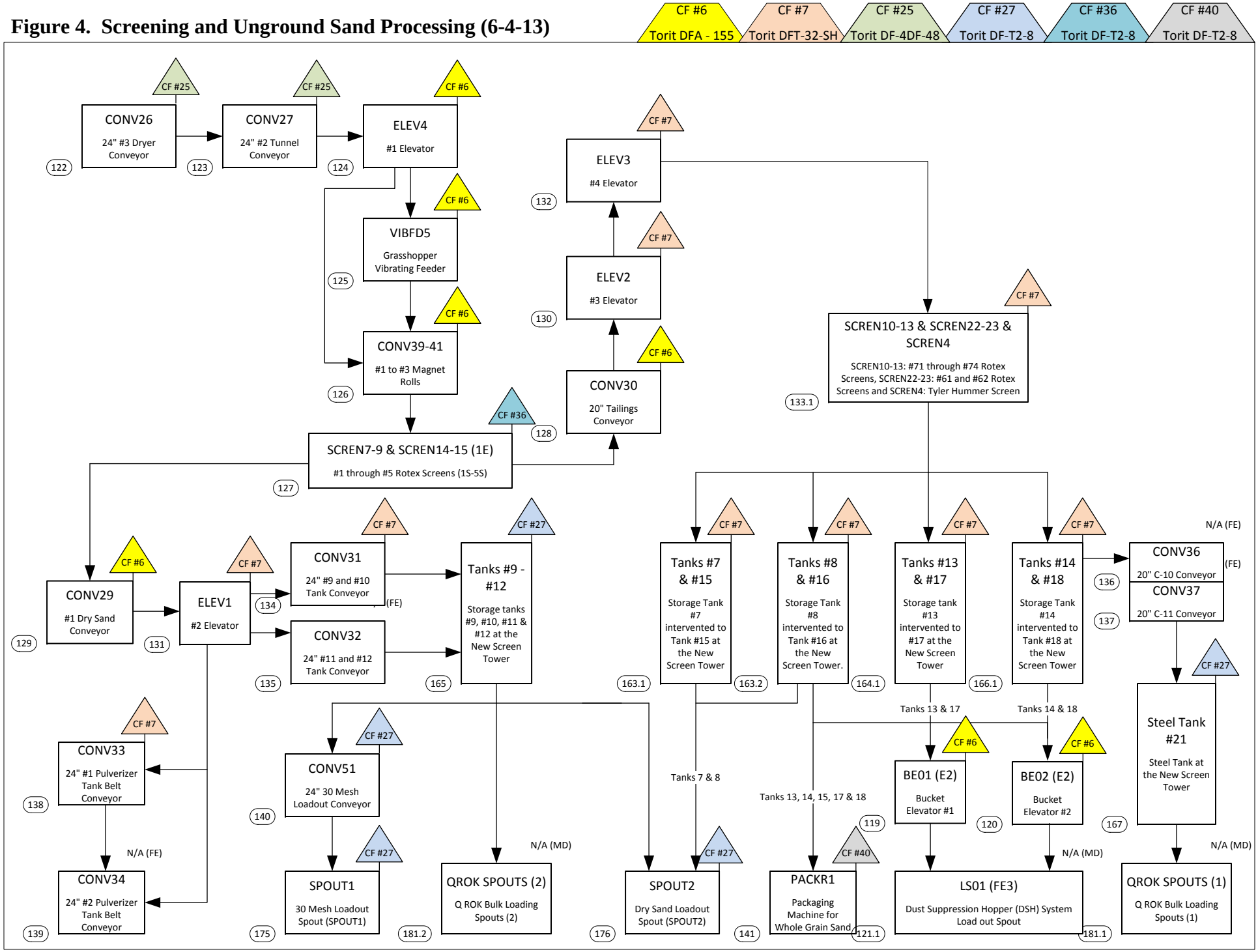


Figure 5. Milling - #1 through #4 Pebble Mills and Course Ground Special Circuit

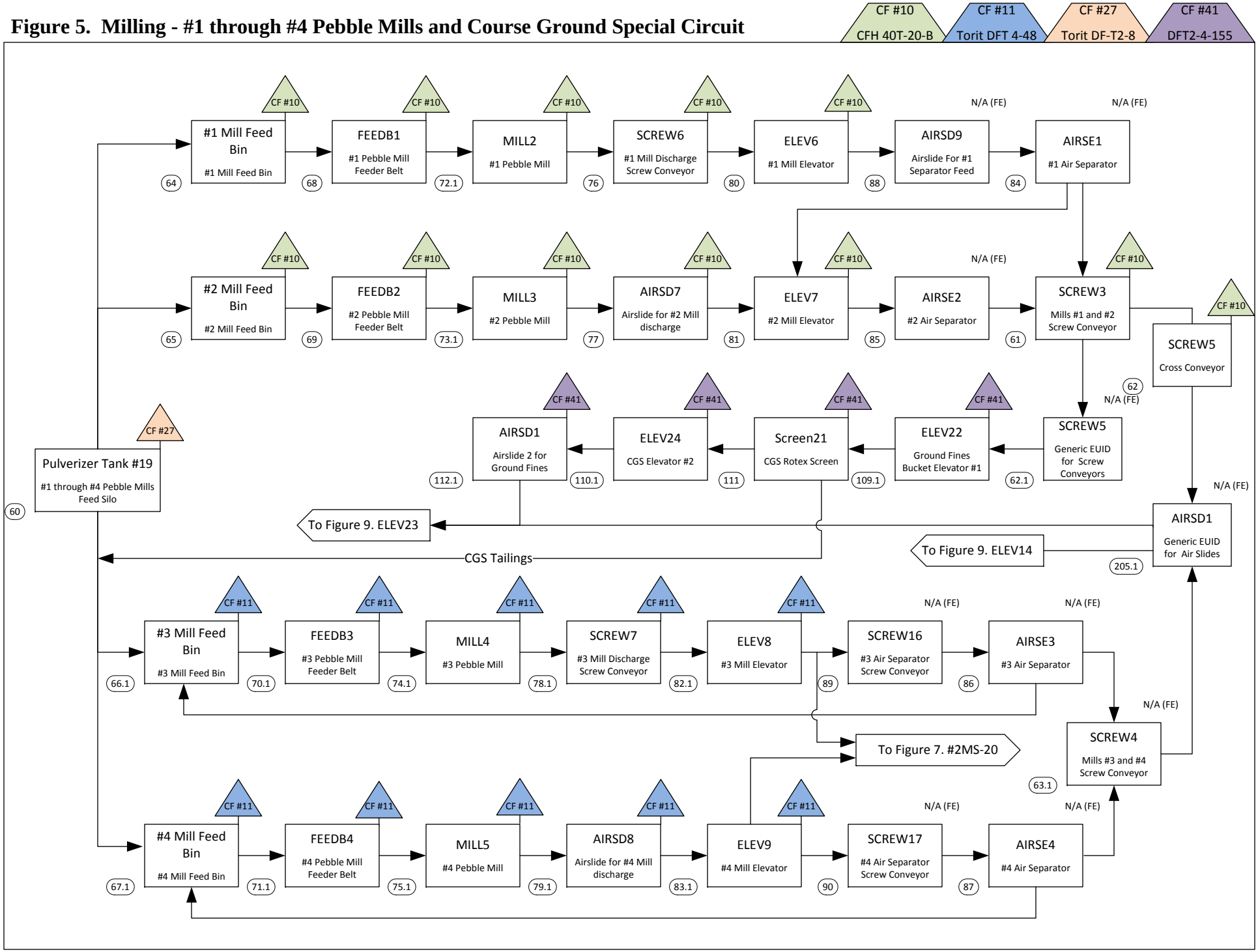


Figure 6. Milling - #5 and #6 Pebble Mills, and Coarse Ground Special Circuit

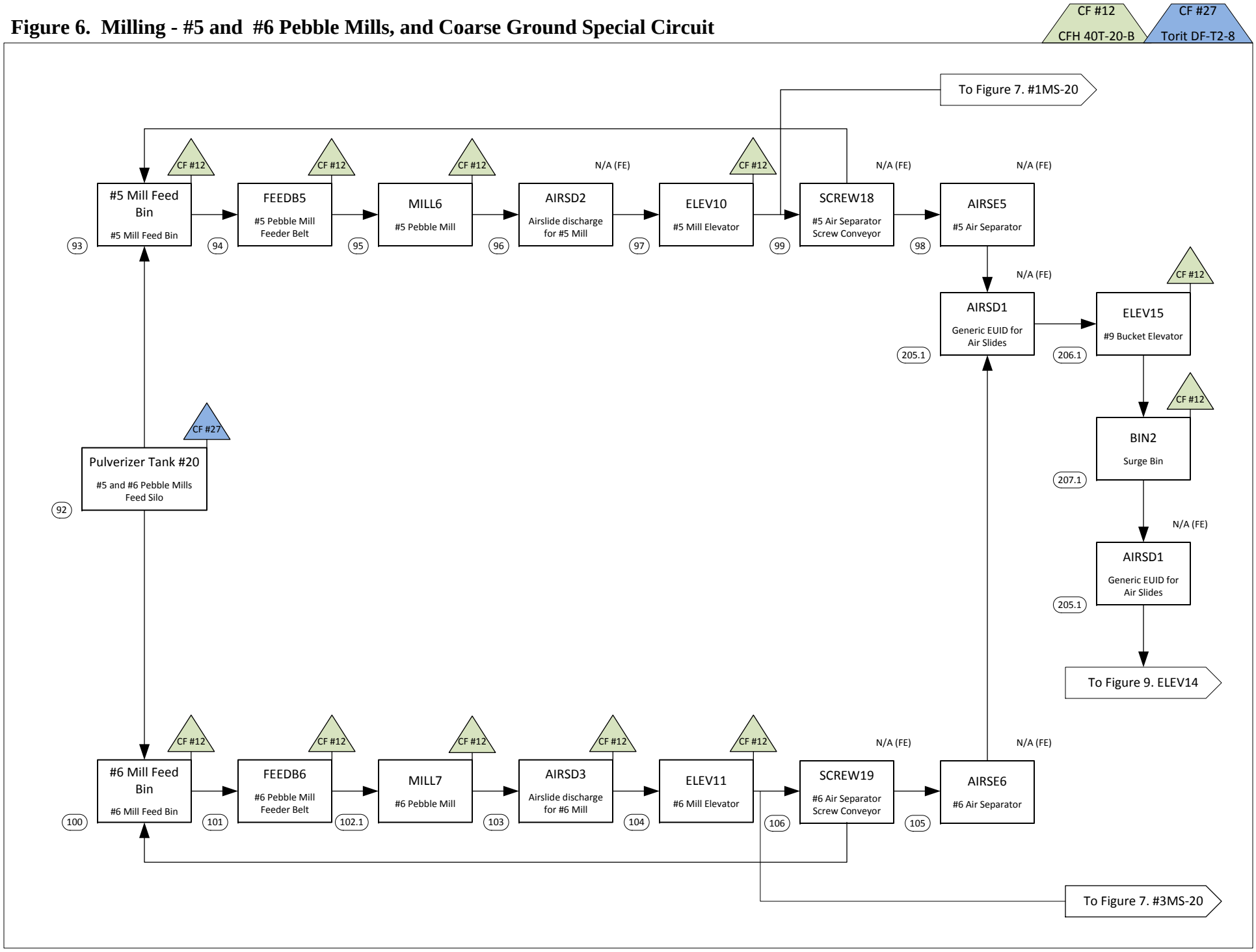


Figure 7. Micro-sizer Classification 5/10/20/30/40 Micron

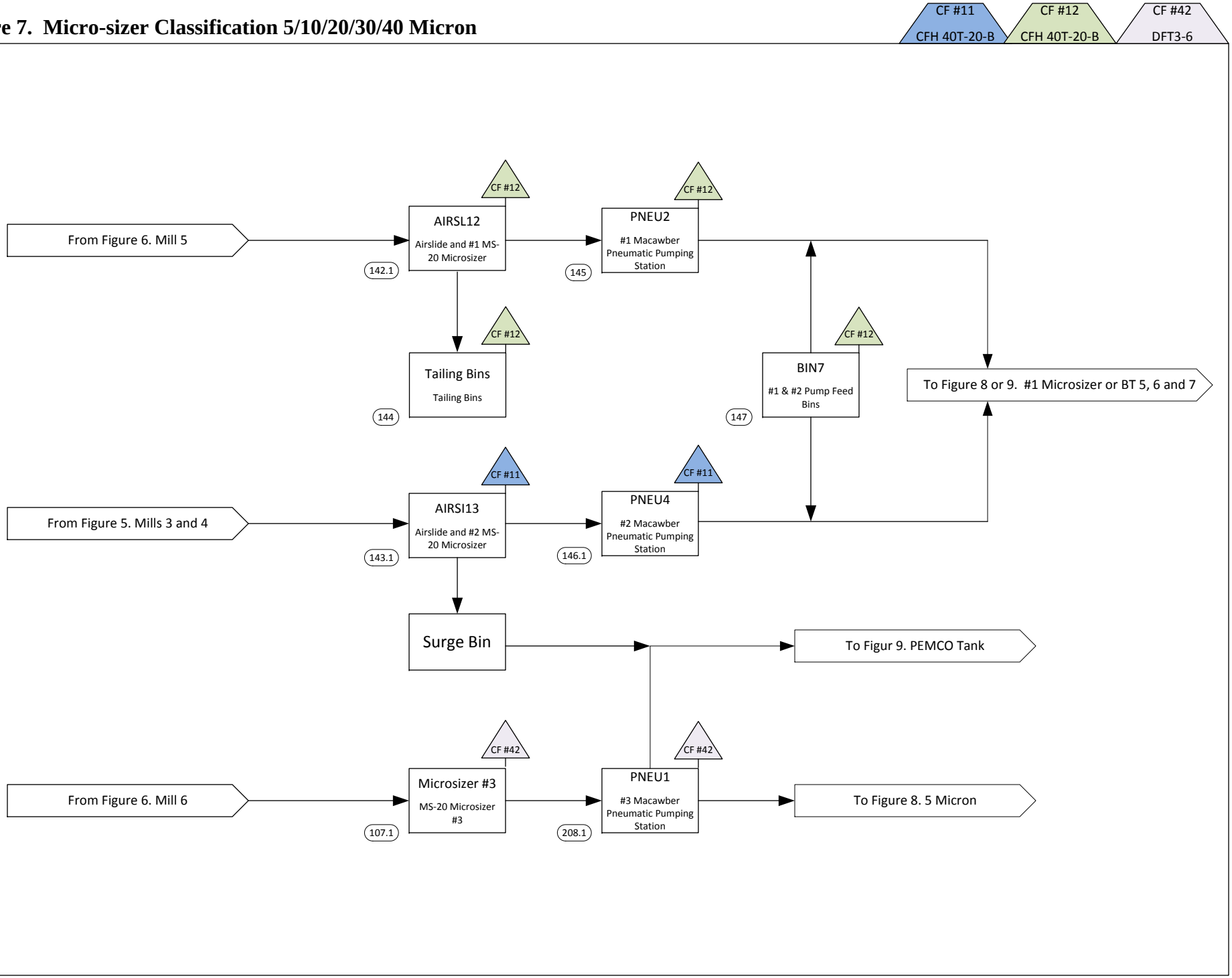


Figure 8. 5 Micron Classification, Loading and Packaging

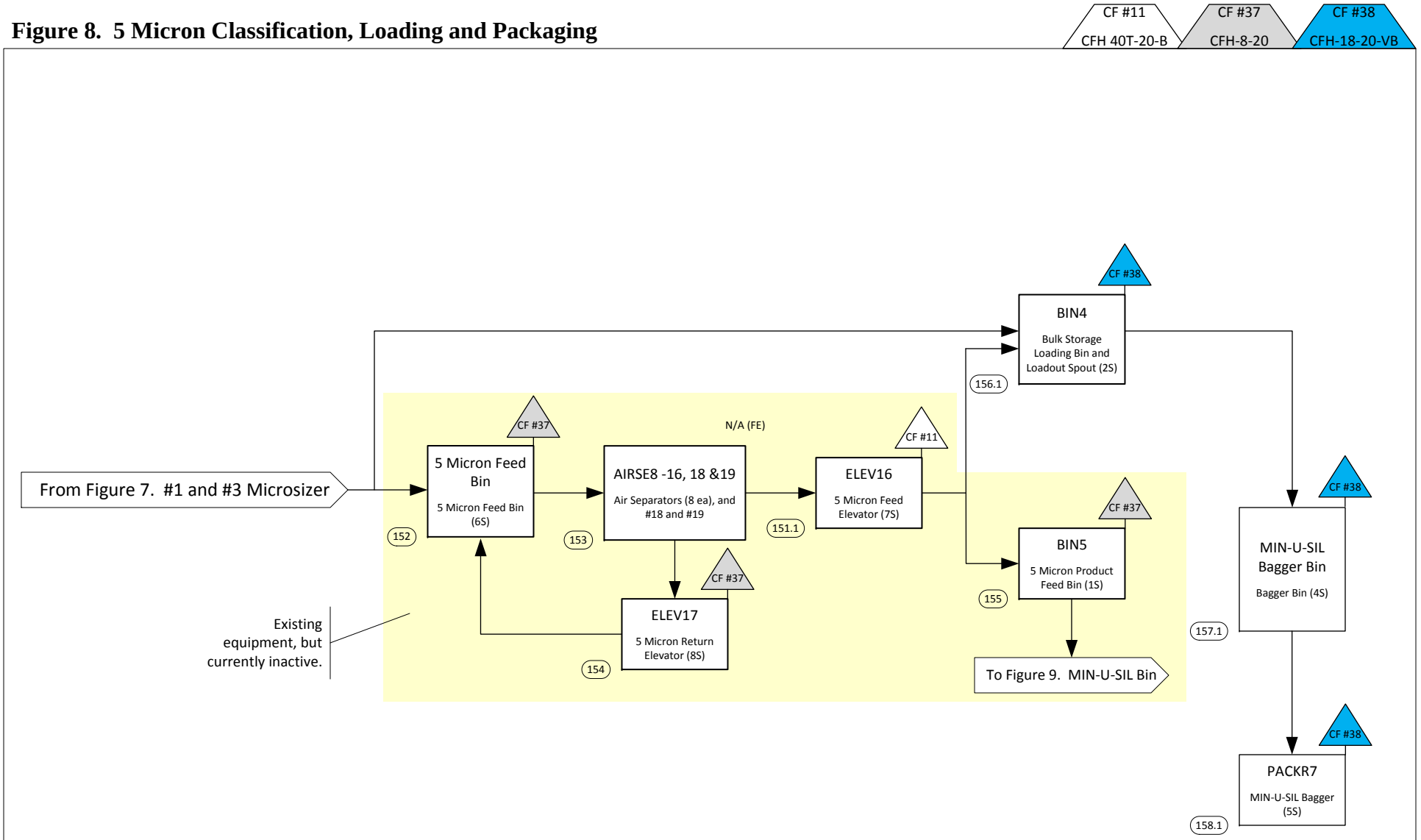
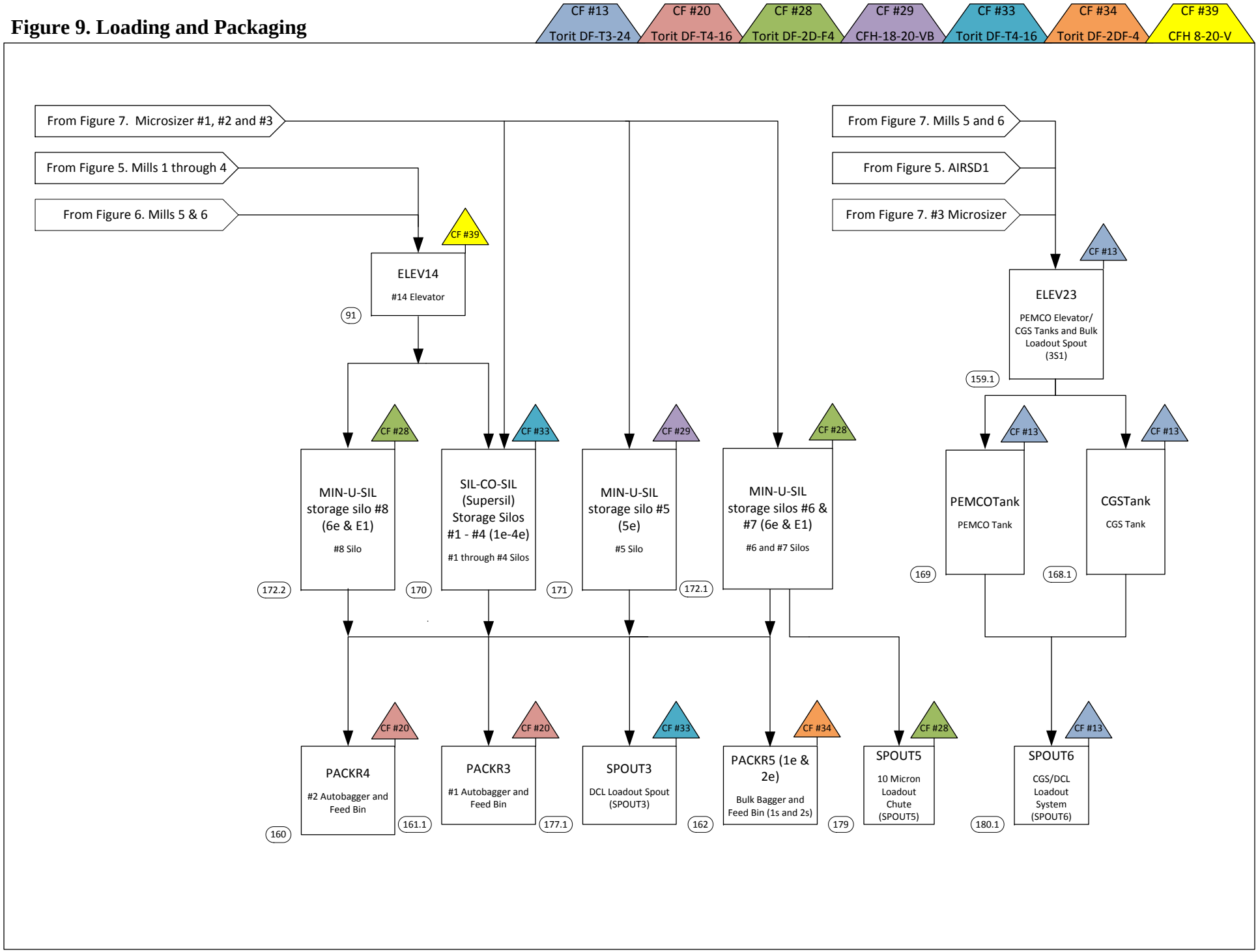


Figure 9. Loading and Packaging



Attachment D

Equipment Table

ATTACHMENT D - Title V Equipment Table
(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

PFD ID	Emission Point ID	Control Device ID[1]	Emission Unit ID	Emission Unit Description	Control Device Description	Design Capacity TPH	Year Installed Modified	Comment
Primary Crushing Plant								
1	T1, T2	N/A (IMC)	VIBFD1	Primary Crusher Feed Bin and Vibratory Feeder	MD, IMC	1000	Pre-1970	
2	Stack #1	CF #1	CRUSH2	4' Jaw Crusher	Bldg #3, CF #1 (Torit DF-T4-32)	800	Pre-1970	
3	Stack #1	CF #1	CONV3	42" Short Belt under Primary Crusher	IMC, BE (Bidg #3), particle size, CF #1 (Torit DF-T4-32)	800	Pre-1970	
4	Stack #1	CF #1	CONV2	42" Incline Belt	IMC, BE (Bidg #3), particle size, CF #1 (Torit DF-T4-32)	800	Pre-1970	
5	T3	N/A	CONV1	42" Stacker Belt to Reclaim Stockpile	PE, particle size, IMC	800	Pre-1970	
6	Reclaim Stockpile	N/A (PE)	Reclaim Stockpile	Reclaim Stockpile	PE, particle size, IMC	800	Pre-1970	
Secondary Crushing Plant								
7	N/A	N/A (PE)	VIBFD2	Vibratory Feeders #1, #2, #3, #4 and #5 in Reclaim Tunnel	Tunnel enclosure, IMC, particle size	400	Pre-1970	
8	N/A	N/A (PE)	CONV4	36" Reclaim Conveyor	Tunnel enclosure, IMC, particle size	400	Pre-1970	
9	N/A	N/A (FE)	CONV5		FE, BE (Bldg #5), IMC, particle size	400	Pre-1970	
10	Stack #2	WSc #2	CRUSH3	Symons Secondary Crusher and Surge Bin	FE, BE (Bidg #5), IMC, particle size Wsc #2 (Sly Impinjet 270)	400	Pre-1970	
11	N/A	N/A (FE)	CONV6	36" Discharge Conveyor from Secondary Crusher (#1 Stone Tank Transfer Conveyor)	FE, IMC, BE (Bldg #5)	400	Pre-1970	
12.1	N/A	N/A (FE)	CONV7	30" Transfer Conveyor	FE, IMC, BE (Bidg #5)	400	Pre-1970	Revised emission unit description.
13	T4	N/A (FE)	CONV8	36" Conveyor to #2 Stone Tank	FE, IMC	400	Pre-1970	
Wet Processing Plant (Rod Mill Building)								
14	N/A	N/A (FE)	CONV12	24" #2 Stone Tank discharge conveyor C-1	FE, BE (Bldg #4), IMC	200	Pre-1970	
15	N/A	N/A (FE)	CONV13	24" Conveyor C-2	FE, BE (Bldg #4), IMC	200	Pre-1970	
16	N/A	N/A (FE)	CONV14	24" Conveyor C-3	FE, BE (Bldg #4), IMC	200	Pre-1970	
17	N/A	N/A (FE)	MILL1	Hardinge Rod Mill	FE, BE (Bldg #4), SS	200	Pre-1970	
18	N/A	N/A (SS)	CONV15	18" Conveyor C-4 to Rod Mill Tailings	SS	150	Pre-1970	
19.1	N/A	N/A (FE)	SCREN1	METSO 8 x 20 Screen	FE, BE (Bldg #4), SS	200	Pre-1970	Revised emission unit description.
20	N/A	N/A (FE)	TANK2	Vessels, Bins, Tanks and Slurry Boxes in Rod Mill Building	FE, BE (Bldg #4), SS	200	Pre-1970	
21	N/A	N/A (FE)	WETSE1 - WETSE5	#1, #2, #3, #4 and #5 Linatex Separators	FE, BE (Bldg #4), SS	200	Pre-1970	

ATTACHMENT D - Title V Equipment Table
(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

PFD ID	Emission Point ID	Control Device ID[1]	Emission Unit ID	Emission Unit Description	Control Device Description	Design Capacity TPH	Year Installed Modified	Comment
22	N/A	N/A (SS)	FERRO1	Ferro Filters	SS	200	Pre-1970	
23.1	N/A	N/A (SS)	CLASS3 & 4	Hydrosizers	SS	200	Pre-1970	Removed CLASS5 from the equipment group.
24	N/A	N/A (SS)	FCell	Outokumpo Flotation Cells	SS	160	2004	
25	N/A	N/A (FE)	CONV54	Feed Conveyor to Denver Ball Mill	FE, BE (Bldg #4), Damp Sand	50	2000	
26	N/A	N/A (FE)	MILL8	Denver 4 x 8 Ball Mill	FE, BE (Bldg #4), Damp Sand	50	2000	
27	N/A	N/A (SS)	PIPE1	Wet Process Sand Slurry Piping	SS	50	Pre-1970	
28	N/A	N/A (SS)	CONV18	30" Stationary Conveyor in Fluid Bed Drain Shed (Bldg #6)	SS	200	Pre-1970	
29.1	N/A	N/A (FE)	CONV19	30" Shuttle Conveyor in Fluid Bed Drain Shed	FE, BE (Bldg #6), SS	200	Pre-1970	Renamed CONV17 to CONV19.
30	N/A	N/A (FE)	CONV20 & CONV22	30" F-1 Feed Hopper Conveyor and 30" F-2 Feed Hopper Conveyor	FE, BE (Bldg #6)	200	1975	
31	T5	N/A (PE)	CONV21	24" C-1 Outside Conveyor	PE	200	1975	
32	T6	N/A (PE)	CONV23	24" C-2 Outside Conveyor	PE	200	1975	
33	T7	N/A (PE)	CONV24	24" C-3 Conveyor	FE	200	1975	
34.1	T8	N/A (FE)	V1BFD4	C3 Belt, Vibratory Feeder	FE	200	1975	Revised emission unit description.
35	Stack #3	WSc #3	DRYER #1 (3s)	Fluid Bed Dryer (71 MMBtu/hr)	WSc #3 (Sly Impinjet Model 1130)	200	1975	
36	Stack #25	CF #25	CONV25	30" C-4 Tunnel Conveyor	CF #25 (Torit DF-4DF-48)	200	1975	
37	Stack #25	CF #25	SCREN16	Tyler Ty-Speed Shaker Screen	CF #25 (Torit DF-4DF-48)	200	1995	
Wet Float Plant								
38	N/A	N/A (SS)	Slurry Pumps	Slurry Pumps	SS	25	Pre-1948	
39	N/A	N/A (SS)	CYCLO4 & CYCLO5	#1 and #2 Wet Cyclones	SS	25	Pre-1948	
40	N/A	N/A (SS)	FERRO2	Ferro Filters	SS	25	Pre-1948	
41	N/A	N/A (SS)	CYCLO3	#4 Wet Cyclone	SS	25	Pre-1948	
41.1	N/A	N/A (SS)	CYCLO2	Wet Cyclone Overrake	SS	25	Pre-1948	Added existing emission unit to Attachment D.
42	N/A	N/A (SS)	Drain Shed	Drain Shed	SS	25	Pre-1948	
43	N/A	N/A (SS)	CONV46	24" Conveyor	SS	25	Pre-1970	
44	N/A	N/A (SS)	CONV47	24" Long Conveyor Belt	SS	25	Pre-1970	

ATTACHMENT D - Title V Equipment Table
(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

PFD ID	Emission Point ID	Control Device ID[1]	Emission Unit ID	Emission Unit Description	Control Device Description	Design Capacity TPH	Year Installed Modified	Comment
45	N/A	N/A (BE)	CLASS5	Rake Classifier	BE, SS	25	Pre-1970	
46	N/A	N/A (BE)	Conditioner	Conditioner	BE, SS	25	Pre-1970	
47	N/A	N/A (BE)	Floatation	Floatation	BE (Bldg #16), SS	25	Pre-1970	
48	N/A	N/A (BE)	Vacuum Table	Vacuum Table	BE (Bldg #16), MC	25	Pre-1970	
49	N/A	N/A (BE)	CONV48	18" Thrower Conveyor Belt	BE (Bldg #16), MC	25	Pre-1970	
50	N/A	N/A (BE)	CONV50	30" Damp Loadout Conveyor Belt	BE (Bldg #17), MC	25	Pre-1970	
51	N/A	N/A (BE)	CONV49	24" Conveyor	BE (Bldg #17), MC	25	Pre-1970	
52	Stack #8	WSc #8	DRYER #2 (8S)	Rotary Dryer (17.1 MMBtu/hr)	FE, BE, WSc #8 (Homemade)	25	Pre-1970	
53	N/A	N/A (BE)	SCREW21	#1 Screw Conveyor	BE (Bldg #17), FE	25	Pre-1970	
54	Stack #9	CF #9	ELEV19	#1 Elevator	FE, BE, CF #9 (Torit 4 DFT 32-155)	25	Pre-1970	
55	Stack #9	CF #9	SCREN17 (1E)	#1 Rotex Screen (1S)	FE, BE, CF #9 (Torit 4 DFT 32-155)	50	1999	
56	Stack #9	CF #9	SCREN18 (1E)	#2 Rotex Screen (2S)	FE, BE, CF #9 (Torit 4 DFT 32-155)	50	1999	
57	N/A	N/A (BE)	SCREW22	#2 Screw Conveyor	BE (Bldg #17), FE	25	Pre-1970	
58	Stack #9	CF #9	ELEV20	#2 Elevator	FE, CF #9 (Torit 4 DFT 32-155)	25	Pre-1970	
59	Stack #9	CF #9	PACKR8 (1E)	BFS Bulk Bagger	FE, CF #9 (Torit 4 DFT 32-155)	30	1998	
Milling Process								
60	Stack #27	CF #27	Pulverizer Tank #19	#1 through #4 Pebble Mills Feed Silo	FE, CF #27 (Torit DF-T2-8)	150	Pre-1970	
61	Stack #10	CF #10	SCREW3	Mills #1 and #2 Screw Conveyor	FE, BE, CF #10 (Mikropul CFH 40T-20-B)	30	Pre-1970	
62.1	N/A	N/A (FE)	SCREW5	Generic EUID for Screw Conveyors	FE	30	Pre-1970	Added generic emission unit for general screw conveyors.
63.1	Stack #11/#10	N/A (FE)	SCREW4	Mills #3 and #4 Screw Conveyor	FE, BE, (Bldg #11), CF #11 (Torit DFT 4-48), and CF #10 (Mikropul CFH 40T-20-B)	30	Pre-1970	Change control device description.
64	Stack #10	CF #10	#1 Mill Feed Bin	#1 Mill Feed Bin	FE, BE, CF #10 (Mikropul CFH 40T-20-B)	100	Pre-1970	
65	Stack #10	CF #10	#2 Mill Feed Bin	#2 Mill Feed Bin	FE, BE, CF #10 (Mikropul CFH 40T-20-B)	100	Pre-1970	
66.1	Stack #11	CF #11	#3 Mill Feed Bin	#3 Mill Feed Bin	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	100	Pre-1970	Change control device description.

ATTACHMENT D - Title V Equipment Table
(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

PFD ID	Emission Point ID	Control Device ID[1]	Emission Unit ID	Emission Unit Description	Control Device Description	Design Capacity TPH	Year Installed Modified	Comment
67.1	Stack #11	CF #11	#4 Mill Feed Bin	#4 Mill Feed Bin	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	100	Pre-1970	Change control device description.
68	Stack #10	CF #10	FEEDB1	#1 Pebble Mill Feeder Belt	FE, BE, CF #10 (Mikropul CFH 40T-20-B)	15	Pre-1970	
69	Stack #10	CF #10	FEEDB2	#2 Pebble Mill Feeder Belt	FE, BE, CF #10 (Mikropul CFH 40T-20-B)	15	Pre-1970	
70.1	Stack #11	CF #11	FEEDB3	#3 Pebble Mill Feeder Belt	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	15	Pre-1970	Change control device description.
71.1	Stack #11	CF #11	FEEDB4	#4 Pebble Mill Feeder Belt	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	15	Pre-1970	Change control device description.
72.1	N/A	CF #10	MILL2	#1 Pebble Mill	FE, BE, CF #10 (Mikropul CFH 40T-20-B)	100	Pre-1970	Change control device description.
73.1	N/A	CF #10	MILL3	#2 Pebble Mill	FE, BE, CF #10 (Mikropul CFH 40T-20-B)	100	Pre-1970	Change control device description.
74.1	Stack #11	CF #11	MILL4	#3 Pebble Mill	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	100	Pre-1970	Change control device description.
75.1	Stack #11	CF #11	MILL5	#4 Pebble Mill	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	100	Pre-1970	Change control device description.
76	Stack #10	CF #10	SCREW6	#1 Mill Discharge Screw Conveyor	FE, BE, CF #10 (Mikropul CFH 40T-20-B)	100	Pre-1970	
77	Stack #10	CF #10	AIRSD7	Airslide for #2 Mill discharge	FE, BE, CF #10 (Mikropul CFH 40T-20-B)	100	Pre-1970	
78.1	Stack #11	CF #11	SCREW7	#3 Mill Discharge Screw Conveyor	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	100	Pre-1970	Change control device description.
79.1	Stack #11	CF #11	AIRSD8	Airslide for #4 Mill discharge	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	100	Pre-1970	Change control device description.
80	Stack #10	CF #10	ELEV6	#1 Mill Elevator	FE, BE, CF #10 (Mikropul CFH 40T-20-B)	100	Pre-1970	
81	Stack #10	CF #10	ELEV7	#2 Mill Elevator	FE, BE, CF #10 (Mikropul CFH 40T-20-B)	100	Pre-1970	
82.1	Stack #11	CF #11	ELEV8	#3 Mill Elevator	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	100	Pre-1970	Change control device description.
83.1	Stack #11	CF #11	ELEV9	#4 Mill Elevator	FE, BE (Bldg #11), CF #11 (Torit DFT 4-48)	100	Pre-1970	Change control device description.
84	N/A	N/A (FE)	AIRSE1	#1 Air Separator	FE, BE (Bldg #11)	100	Pre-1970	
85	N/A	N/A (FE)	AIRSE2	#2 Air Separator	FE, BE (Bldg #11)	100	Pre-1970	
86	N/A	N/A (FE)	AIRSE3	#3 Air Separator	FE, BE (Bldg #11)	100	Pre-1970	
87	N/A	N/A (FE)	AIRSE4	#4 Air Separator	FE, BE (Bldg #11)	100	Pre-1970	
88	N/A	N/A (FE)	AIRSD9	Airslide For #1 Separator Feed	FE, BE (Bldg #11)	100	Pre-1970	
89	N/A	N/A (FE)	SCREW16	#3 Air Separator Screw Conveyor	FE, BE (Bldg #11)	100	Pre-1970	
90	N/A	N/A (FE)	SCREW17	#4 Air Separator Screw Conveyor	FE, BE (Bldg #11)	100	Pre-1970	
91	Stack #39	CF #39	ELEV14	#14 Elevator	FE, BE (Bldg #11), CF #39 (Mikropul 8-20-V)	150	Pre-1970	
92	Stack #27	CF #27	Pulverizer Tank #20	#5 and #6 Pebble Mills Feed Silo	FE, BE (Bldg #11), CF #27 (Torit DF-T2-8)	150	Pre-1970	
93	Stack #12	CF #12	#5 Mill Feed Bin	#5 Mill Feed Bin	FE, BE (Bldg #11), CF #12 (Mikropul CFH 40T-20-B)	100	Pre-1970	

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(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

PFD ID	Emission Point ID	Control Device ID[1]	Emission Unit ID	Emission Unit Description	Control Device Description	Design Capacity TPH	Year Installed Modified	Comment
94	Stack #12	CF #12	FEEDB5	#5 Pebble Mill Feeder Belt	FE, BE (Bldg #11), CF #12 (Mikropul CFH 40T-20-B)	15	Pre-1970	
95	Stack #12	CF #12	MILL6	#5 Pebble Mill	FE, BE (Bldg #11), CF #12 (Mikropul CFH 40T-20-B)	100	Pre-1970	
96	N/A	N/A (FE)	AIRSD2	Airslide discharge for #5 Mill	FE, BE (Bldg #11)	100	Pre-1970	
97	Stack #12	CF #12	ELEV10	#5 Mill Elevator	FE, BE (Bldg #11), CF #12 (Mikropul CFH 40T-20-B)	100	Pre-1970	
98	N/A	N/A (FE)	AIRSE5	#5 Air Separator	FE, BE (Bldg #11)	100	Pre-1970	
99	N/A	N/A (FE)	SCREW18	#5 Air Separator Screw Conveyor	FE, BE (Bldg #11)	100	Pre-1970	
100	Stack #12	CF #12	#6 Mill Feed Bin	#6 Mill Feed Bin	FE, BE (Bldg #11), CF #12 (Mikropul CFH 40T-20-B)	100	Pre-1970	
101	Stack #12	CF #12	FEEDB6	#6 Pebble Mill Feeder Belt	FE, BE (Bldg #11), CF #12 (Mikropul CFH 40T-20-B)	15	Pre-1970	
102.1	Stack #12	CF #12	MILL7	#6 Pebble Mill	FE, BE (Bldg #11), CF #12 (Mikropul CFH 40T-20-B)	100	Pre-1970	Change control device name and description.
103	Stack #12	CF #12	AIRSD3	Airslide discharge for #6 Mill	FE, BE (Bldg #11), CF #12 (Mikropul CFH 40T-20-B)	100	Pre-1970	
104	Stack #12	CF #12	ELEV11	#6 Mill Elevator	FE, BE (Bldg #11), CF #12 (Mikropul CFH 40T-20-B)	100	Pre-1970	
105	N/A	N/A (FE)	AIRSE6	#6 Air Separator	FE, BE (Bldg #11)	100	Pre-1970	
106	N/A	N/A (FE)	SCREW19	#6 Air Separator Screw Conveyor	FE, BE (Bldg #11)	100	Pre-1970	
Classification (5/10/15/30/40 Micron)								
107.1	Stack #42	CF #42	Microsizer #3	MS-20 Microsizer #3	CF #42 (Torit M/N DFT 2-4-155 (2C))	25	2005	Change control device name and description.
108	Stack #41	CF #41	BF1	Microsizer #3 Belt Feeder	CF #41 (Torit M/N DFT 2-4-155 (2C))	20	2005	
109.1	Stack #41	CF #41	ELEV22	Ground Fines Bucket Elevator #1	CF #41 (Torit M/N DFT 2-4-155 (2C))	20	2005	Change emission unit ID.
110.1	Stack #41	CF #41	ELEV24	CGS Elevator #2	CF #41 (Torit M/N DFT 2-4-155 (2C))	20	2005	Change emission unit ID.
111	Stack #41	CF #41	Screen21	CGS Rotex Screen	CF #41 (Torit M/N DFT 2-4-155 (2C))	25	2005	
112.1	Stack #41	CF #41	AIRSD1	Airslide 2 for Ground Fines	CF #41 (Torit M/N DFT 2-4-155 (2C))	20	2005	Change emission unit name.
113	Stack #41	CF #41	AS3	Airslide 3 for Ground Fines	CF #41 (Torit M/N DFT 2-4-155 (2C))	20	2005	
114	Stack #41	CF #41	IS1	Impact Scale	CF #41 (Torit M/N DFT 2-4-155 (2C))	20	2005	
115	Stack #41	CF #41	Airslide 100	Airslide (2s) for CGS	CF #41 (Torit M/N DFT 2-4-155 (2C))	8	2005	
116	Stack #41	CF #41	Airslide 200	Airslide (3s) for CGS	CF #41 (Torit M/N DFT 2-4-155 (2C))	8	2005	

ATTACHMENT D - Title V Equipment Table
(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

PFD ID	Emission Point ID	Control Device ID[1]	Emission Unit ID	Emission Unit Description	Control Device Description	Design Capacity TPH	Year Installed Modified	Comment
117	Stack #41	CF #41	Surge Hopper (#3 Microsizer)	#3 Microsizer Surge Hopper (4s)	CF #41 (Torit M/N DFT 2-4-155 (2C))	8	2005	
118	Stacks #28 and #29	N/A	Tech Air Pumping Station	#3 Microsizer Pneumatic Pumping Station (5s)	CF #28 (Torit M/N DF-2D-F4) and CF #29 (Mikropul 8204B (3C))	8	2005	
205.1	N/A FE	N/A (FE)	AIRSD1	Generic EUID for Air Slides	FE	100	N/A	Added generic emission unit for air slides.
206.1	Stack #12	CF #12	ELEV15	#9 Bucket Elevator	FE, BE (Bldg #11), CF #12 (Mikropul CFH 40T-20-B)	100	Pre-1970	Added existing emission unit to Attachment D.
207.1	Stack #12	CF #12	BIN2	Surge Bin	FE, BE (Bldg #11), CF #12 (Mikropul CFH 40T-20-B)	100	Pre-1970	Added existing emission unit to Attachment D.
Screening and Unground Sand Processing								
119	Stack #6	CF #6	BE01 (E2)	Bucket Elevator #1	CF #6 (Torit M/N 2DFA-155)	150	2012	
120	Stack #6	CF #6	BE02 (E2)	Bucket Elevator #2	CF #6 (Torit M/N 2DFA-155)	150	2012	
121.1	Stack #6	N/A (MD)	LS01 (FE3)	Dust Suppression Hopper (DSH) System Load out Spout	ID, MD	150	2012	Change control technique description.
122	Stack #25	CF #25	CONV26	24" #3 Dryer Conveyor	FE, CF #25 (Torit DF-4DF-48)	200	Pre-1975	
123	Stack #25	CF #25	CONV27	24" #2 Tunnel Conveyor	FE, CF #25 (Torit DF-4DF-48)	200	Pre-1975	
124	Stack #6	CF #6	ELEV4	#1 Elevator	FE (Bldg #7), CF #6 (Torit M/N 2DFA-155)	200	Pre-1975	
125	Stack #6	CF #6	VIBFD5	Grasshopper Vibrating Feeder	Totally enclosed, equipment also enclosed in Bldg #7, CF #6 (Torit M/N 2DFA-155)	200	1973	
126	Stack #6	CF #6	CONV39-41	#1 to #3 Magnet Rolls	Chutes and piping are totally enclosed, equipment also enclosed in Bldg #7, CF #6-ToritM/N2DFA-155	200	Pre-1975	
127	Stack #36	CF #36	SCREN7-9 & SCREN14-15 (1E)	#1 through #5 Rotex Screens (1S-5S)	Chutes and piping are totally enclosed, equipment also enclosed in Bldg #7, CF #36 (Torit DF-T2-8 (1C))	375	1995-1997	
128	Stack #6	CF #6	CONV30	20" Tailings Conveyor	FE (Bldg #7), CF #6 (Torit M/N 2DFA-155)	30	Pre-1975	
129	Stack #6	CF #6	CONV29	#1 Dry Sand Conveyor	FE (Bldg #7), CF #6 (Torit M/N 2DFA-155)	175	Pre-1975	
130	Stack #7	CF #7	ELEV2	#3 Elevator	FE (Bldg #7), CF #7 (M/N DFT4-32-SH)	30	Pre-1975	
131	Stack #7	CF #7	ELEV1	#2 Elevator	FE (Bldg #7), CF #7 (M/N DFT4-32-SH)	75	Pre-1975	
132	Stack #7	CF #7	ELEV3	#4 Elevator	Chutes and piping are totally enclosed, equipment also enclosed in Bldg. #7, M/N	75	Pre-1975	

ATTACHMENT D - Title V Equipment Table
(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

PFD ID	Emission Point ID	Control Device ID[1]	Emission Unit ID	Emission Unit Description	Control Device Description	Design Capacity TPH	Year Installed Modified	Comment
					DFT4-32-SH Cartridge Filter			
133.1	Stack #7	CF #7	SCREN10-13 & SCREN22-23 & SCREN4	SCREN10-13: #71 through #74 Rotex Screens, SCREN22-23: #61 and #62 Rotex Screens and SCREN4: Tyler Hummer Screen	Chutes and piping are totally enclosed, equipment also enclosed in Bldg. #7, M/N DFT4-32-SH Cartridge Filter	75	Modified 1996 Pre-1975	Revised emission unit description.
134	Stack #7	CF #7	CONV31	24" #9 and #10 Tank Conveyor	Chutes and piping are totally enclosed, FE (Bldg #7), M/N DFT4-32-SH Cartridge Filter	75	Pre-1975	
135	N/A	N/A (FE)	CONV32	24" #11 and #12 Tank Conveyor	Chutes and piping are totally enclosed, Building Enclosure #7	75	Pre-1975	
136	N/A	N/A (FE)	CONV36	20" C-10 Conveyor	Chutes and piping are totally enclosed, Building Enclosure #7	110	Pre-1975	
137	N/A	N/A (FE)	CONV37	20" C-11 Conveyor	FE, BE (Bldg ft 7)	110	Pre-1975	
138	Stack #7	CF #7	CONV33	24" #1 Pulverizer Tank Belt Conveyor	FE (Bldg #7), CF #7 (M/N DFT4-32-SH)	200	Pre-1975	
139	N/A	N/A (FE)	CONV34	24" #2 Pulverizer Tank Belt Conveyor	FE	200	Pre-1975	
140	Stack #27	CF #27	CONV51	24" 30 Mesh Loadout Conveyor	FE, CF #27 (Torit DF-T2-8)	200	Pre-1975	
141	Stack #40	CF #40	PACKR1	Packaging Machine for Whole Grain Sand	Piping is totally enclosed, BE, CF #40 (Torit DF-T2-8)	200	Pre-1975	
Classification (5/10/15/30/40 Micron)								
107.1	Stack #42	CF #42	Microsizer #3	MS-20 Microsizer #3	CF #42 (Torit M/N DFT 2-4-155 (2C))	25	2005	Change control device name and description.
142.1	Stack #12	CF #12	AIRSL12	Airslide and #1 MS-20 Microsizer	FE, BE (Bldg #13), CF #12 (Mikropul CFH 40T-20-B)	85	1996	Revised emission unit description.
143.1	Stack #11	CF #11	AIRSL13	Airslide and #2 MS-20 Microsizer	FE, BE (Bldg #13), CF #11 (Torit DFT 4-48)	85	1996	Revised emission unit description.
144	Stack #12	CF #12	Tailing Bins	Tailing Bins	FE, BE, CF #12 (Mikropul CFH 40T-20-B)	130	Pre-1975	
145	Stack #12	CF #12	PNEU2	#1 Macawber Pneumatic Pumping Station	BE, FE, CF #12 (Mikropul CFH 40T-20-B)	15	1996	
146.1	Stack #11	CF #11	PNEU4	#2 Macawber Pneumatic Pumping Station	FE, BE, CF #11 (Torit DFT 4-48)	15	1996	Change control device description.
147	Stack #12	CF #12	BIN7	#1 & #2 Pump Feed Bins	FE, BE, CF #12 (Mikropul CFH 40T-20-B)	15	Pre-1975	
148	Stack #12	CF #12	#1 & #2 Pumps	#1 and #2 pneumatic pumps	FE, BE, CF #12 (Mikropul CFH 40T-20-B)	15	1996	
208.1	Stack #42	CF #42	PNEU1	#3 Macawber Pneumatic Pumping Station	CF #42 (Torit M/N DFT 2-4-155 (2C))	15	2005	Added existing emission unit to Attachment D.
5 Micron Classification								
151.1	Stack #11	CF #11	ELEV16	5 Micron Feed Elevator (7S)	FE, BE, CF #11 (Torit DFT 4-48)	150	1996	Change control device description.

ATTACHMENT D - Title V Equipment Table
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PFD ID	Emission Point ID	Control Device ID[1]	Emission Unit ID	Emission Unit Description	Control Device Description	Design Capacity TPH	Year Installed Modified	Comment
152	Stack #37	CF #37	5 Micron Feed Bin	5 Micron Feed Bin (6S)	FE, BE, CF #37 (Mikropul M/N CFH-8-20 (1D))	150	1996	
153	N/A	N/A (FE)	AIRSE8 - 16, 18 &19	Air Separators (8 ea), and #18 and #19	FE, BE (Bldg #12)	20	1973	
154	Stack #37	CF #37	ELEV17	5 Micron Return Elevator (8S)	FE, BE, CF #37 (Mikropul M/N CFH-8-20 (1D))	150	1996	
155	Stack #37	CF #37	BIN5	5 Micron Product Feed Bin (1S)	FE, BE, CF #37 (Mikropul M/N CFH-8-20 (1D))	10	1996	
156.1	Stack #38	CF #38	BIN4	Bulk Storage Loading Bin and Loadout Spout (2S)	CF #38 (Mikropul M/N CFH 18-20-V-B (1C))	10	1996	Revised emission unit description.
157.1	Stack #38	CF #38	MIN-U-SIL Bagger Bin	Bagger Bin (4S)	FE, BE, CF #38 (Mikropul M/N CFH 18-20-V-B (1C))	15	1996	Revised emission unit name and description.
158.1	Stack #38	CF #38	PACKR7	MIN-U-SIL Bagger (5S)	FE, BE, CF #38 (Mikropul M/N CFH 18-20-V-B (1C))	15	1996	Revised emission unit description.
159.1	Stack #13	CF #13	ELEV23	PEMCO Elevator/CGS Tanks and Bulk Loadout Spout (3S1)	FE, CF #13 (Torit DF-T3-24)	150	Pre 1983	Change emission unit name and description.
160	Stack #20	CF #20	PACKR4	#2 Autobagger and Feed Bin	FE, BE (Bldg #14), CF #20 (Torit DF-T4-16)	20	1981	
161.1	Stack #20	CF #20	PACKR3	#1 Autobagger and Feed Bin	FE, BE (Bldg #14), CF #20 (Torit DF-T4-16)	20	1981	Revised emission unit description.
162	Stack #34	CF #34	PACKR5 (1e & 2e)	Bulk Bagger and Feed Bin (1s and 2s)	FE, BE (Bldg #14), CF #34 (Torit DF-2D-F4 (1C))	15	1988	
Storage Structures								
163.1	Stack #7	CF #7	Tanks #7 & #15	Storage Tank #7 intervented to Tank #15 at the New Screen Tower	particle size, PE, CF #7 (M/N DFT4-32-SH)	150	Pre-1948	Re-characterization of tanks #7 and #15. No physical changes have resulted from this revision.
163.2	Stack #7	CF #7	Tanks #8 & #16	Storage Tank #8 intervented to Tank #16 at the New Screen Tower.	particle size, PE, CF #7 (M/N DFT4-32-SH)	150	Pre-1948	Re-characterization of tanks #8 and #16. Existing Tank #16 has been added to Attachment D. No physical changes have resulted from this revision.
164.1	Stack #7	CF #7	Tanks #13 & #17	Storage tank #13 intervented to #17 at the New Screen Tower	particle size, PE, CF #7 (M/N DFT4-32-SH)	150	Pre-1970	Re-characterization of tanks #13 and #17. No physical changes have resulted from this revision.
165	Stack #27	CF #27	Tanks #9 - #12	Storage tanks #9, #10, #11 & #12 at the New Screen Tower	particle size. PE. MD, CF #27 (Torit DF-T2-8)	150	Pre-1970	
166.1	Stack #7	CF #7	Tanks #14 & #18	Storage Tank #14 intervented to Tank #18 at the New Screen Tower	particle size, PE, CF #7 (M/N DFT4-32-SH)	150	Pre-1970	Re-characterization of tanks #14 and #18. No physical changes have resulted from this revision.
167	Stack #27	CF #27	Steel Tank	Steel Tank at the New Screen Tower	particle size, PE, MD, CF #27 (Torit DF-T2-8)	100	Pre-1970	

ATTACHMENT D - Title V Equipment Table
(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

PFD ID	Emission Point ID	Control Device ID[1]	Emission Unit ID	Emission Unit Description	Control Device Description	Design Capacity TPH	Year Installed Modified	Comment
			#21					
168.1	Stack #13	CF #13	CGSTank	CGS Tank	FE, CF #13 (Torit DF-T3-24)	800	1998	Change emission unit name and description.
169	Stack #13	CF #13	PEMCOTank	PEMCO Tank	FE, CF #13 (Torit DF-T3-24)	250	Pre 1983	
170	Stack #33	CF #33	SIL-CO-SIL (Supersil) Storage Silos #1 - #4 (1e-4e)	#1 through #4 Silos	FE, CF #33 (Torit DF-T4-16)	125	1984	
171	Stack #29	CF #29	MIN-U-SIL storage silo #5 (5e)	#5 Silo	FE, CF #29 (Mikropul CFH-I8-20-VB)	125	1984	
172.1	Stack #28	CF #28	MIN-U-SIL storage silos #6 & #7 (6e & E1)	#6 and #7 Silos	FE, CF #28 (Torit DF-2D-F4)	100	1984, 1999	Separated Silo #6 and #7 from the emission group.
172.2	Stack #28	CF #28	MIN-U-SIL storage silo #8 (6e & E1)	#8 Silo	FE, CF #28 (Torit DF-2D-F4)	100	1984, 1999	Separated Silo #8 out from the emission group.
173.1	Stack #9	CF #9	ISTANK18	Concrete Tank at the Float Plant	FE, CF #9 (Torit 4 DFT 32-155)	100	Pre-1970	Revised emission unit name.
174	Stack #9	CF #9	Steel Storage Tank	Steel Tank at the Float Plant	FE, CF #9 (Torit 4 DFT 32-155)	100	Pre-1970	
175	Stack #27	CF #27	SPOUT1	30 Mesh Loadout Spout (SPOUT1)	PE, MD, CF #27 (Torit DF-T2-8)	150	Pre-1970	
176	Stack #27	CF #27	SPOUT2	Dry Sand Loadout Spout (SPOUT2)	PE, MD, CF #27 (Torit DF-T2-8)	150	Pre-1970	
177.1	Stack #33	CF #33	SPOUT3	DCL Loadout Spout (SPOUT3)	FE, CF #33 (Torit DF-T4-16)	200	Pre-1970	Change control device name and description.
178	Stack #9	CF #9	SPOUT4	Float Plant Loadout Spout (SPOUT4)	PE, MD, CF#9 (Torit 4DF-32-155)	150	Pre-1970	
179	Stack #28	CF #28	SPOUT5	10 Micron Loadout Chute (SPOUT5)	PE, MD, CF #28 (Torit DF-2D-F4)	150	Pre-1970	
180.1	Stack #13	CF #13	SPOUT6	CGS/DCL Loadout System (SPOUT6)	PE, MD, CF #13 (Torit DF-T3-24)	250	Pre-1970	Change emission unit description.
181.1	N/A	N/A (MD)	QROK SPOUTS (1)	Q ROK Bulk Loading Spouts (1)	MD, ID, Inherent design lowers fugitive emissions	150	Pre-1970	Revised emission unit name and control device description.
181.2	N/A	N/A (MD)	QROK SPOUTS (2)	Q ROK Bulk Loading Spouts (2)	MD, ID, Inherent design lowers fugitive emissions	150	Pre-1970	Added existing emission unit to Attachment D.

ATTACHMENT D - Title V Equipment Table
(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

PFD ID	Emission Point ID	Control Device ID[1]	Emission Unit ID	Emission Unit Description	Control Device Description	Design Capacity TPH	Year Installed Modified	Comment
203.1	N/A	N/A (BE)	#1 Stone Tank	#1 Stone Tank (Inside Building)	BE		Before 1976	Added existing emission unit to Attachment D.
204.1	N/A	N/A (BE)	#2 Stone Tank	#2 Stone Tank (Inside Building)	BE		Before 1976	Added existing emission unit to Attachment D.
Liquid Storage Tanks								
185	T1	N/A	Tank No. 1	Diesel Fuel Tank		10000	Before 1976	
186	T2	N/A	Tank No. 2	Used Oil Tank at Maintenance garage		275	Before 1976	
187	T3	N/A	Tank No. 3	Used Oil Tank at Maintenance garage		275	Before 1976	
188	T4	N/A	Tank No. 4	#1 Oil Tank at Maintenance garage		275	Before 1976	
189	T5	N/A	Tank No. 5	#2 Oil Tank at Maintenance garage		275	Before 1976	
190	T6	N/A	Tank No. 6	#3 Oil Tank at Maintenance garage		275	Before 1976	
191	T7	N/A	Tank No. 7	#4 Oil Tank at Maintenance garage		275	Before 1976	
192	T8	N/A	Tank No. 8	Recycled Oil Tank near Float Plant		100000	1975	
193	T11	N/A	Tank No. 11	Kerosene Tank at C & R Shop		275	1995	
194	T12	N/A	Tank No. 12	Gasoline Tank at Office Building		1000	1995	
195	T13	N/A	Tank No. 13	Lube Oil Tank at Secondary Crusher		300	Before 1976	
196	T16	N/A	Tank No. 16	Recycled Oil		30000	2003	
197	T17	N/A	Tank No. 17	Recycled Oil		30000	2003	
198	T24	N/A	Tank No. 24	Petroleum Sulfonate (Conditioner) Tank at Float Plant		275	Before 1976	
199	T25	N/A	Tank No. 25	Two Propane Tanks at the electric shop 30,000 gallon each		60000	Before 1976	
200	T26	N/A	Tank No. 26	Propane Tank at the Quarry		2000	1999	
201	T27	N/A	Tank No. 27	Propane Tank at #6 Oil Building		1000	Before 1976	
202	T28	N/A	Tank No. 28	Two Propane Tanks at the C&R Shop 1000 gallon each		2000	Before 1976	
203.1	N/A	N/A (BE)	#1 Stone	#1 Stone Tank (Inside Building)	BE		Before	Added existing emission unit to

ATTACHMENT D - Title V Equipment Table
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PFD ID	Emission Point ID	Control Device ID[1]	Emission Unit ID	Emission Unit Description	Control Device Description	Design Capacity TPH	Year Installed Modified	Comment
			Tank				1976	Attachment D.
204.1	N/A	N/A (BE)	#2 Stone Tank	#2 Stone Tank (Inside Building)	BE		Before 1976	Added existing emission unit to Attachment D.
205.1	N/A FE	N/A (FE)	AIRSD1	Generic EUID for Air Slides	FE	100	N/A	Added generic emission unit for air slides.
206.1	Stack #12	CF #12	ELEV15	#9 Bucket Elevator	FE, BE (Bldg #11), CF #12 (Mikropul CFH 40T-20-B)	100	Pre-1970	Added existing emission unit to Attachment D.
207.1	Stack #12	CF #12	BIN2	Surge Bin	FE, BE (Bldg #11), CF #12 (Mikropul CFH 40T-20-B)	100	Pre-1970	Added existing emission unit to Attachment D.
Miscellaneous								
182	N/A	N/A (WT)	Roads	Unpaved Quarry Haul Roads, and Paved and Unpaved Plant Roadways	WT		Pre-1970	
183	N/A	N/A (MD)	Golf Sand Stockpile	Stockpile	Particle Size, MD			
184	N/A	N/A (MD)	Float Sand Stockpile	Stockpile	Particle Size, MD			

[1]For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points.

Notes:

Redlined rows has the revised information immediately below the redlined row with the corresponding process flow ID number and a decimal representing that this row's information has been revised.

Abbreviations:

FE = Full Enclosure, PE = Partial Enclosure, BE = Building Enclosure, T = Tunnel or Underground, IMC = Inherent Moisture Content(1-5%), MC = Moisture Content, SS = Saturated Sand(60% moisture), WS = Water Spray, WT = Water Truck, MD = Minimized Drop Height, EL = Enclosed Loading Station, WSc = Wet Scrubber, CF = Cartridge

Attachment E

Emission Unit Forms

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: CRUSH2, CONV2, CONV3	**Emission unit name:** Primary Crushing Plant	**List any control devices associated with this emission unit:** CF #1
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Primary Crushing Plant (Stack #1)		
Manufacturer: Donaldson	**Model number:** Torit DF-T4-32	**Serial number:** NA
Construction date: Pre-1970	**Installation date:** Pre-1970	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 800		
Maximum Hourly Throughput: **800**	**Maximum Annual Throughput:** 7,000,000 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	--	--
Particulate Matter (PM_{10})	--	--
Total Particulate Matter (TSP)	50	--
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Allowable PM Stack Emissions (Type 'a' Source Operation)
[45CSR§7-4.1] [Stacks 1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40, Wsc#2

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
According to the CAM plan submitted, the differential pressure gauges for the filters shall be operated continuously during operation of the emission units. [40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stacks #1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

Testing Requirements
NA [R30-06500001-2008 (S0M1) sections 6.3.]

Recordkeeping Requirements
Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2008 (S0M1) sections 6.2.2 will be recorded. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter and the wet scrubber during operation on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

Qualified personnel shall perform visual inspections of the fabric filters and wet scrubber control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters and wet scrubber. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

General recordkeeping requirements. (1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.]

Reporting Requirements
Reporting will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.
(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:
(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: CRUSH3	**Emission unit name:** Secondary Crushing Plant	**List any control devices associated with this emission unit:** WSc #2
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Secondary Crushing Plant (Stack #2)		
Manufacturer: Sly	**Model number:** Impinjet 270	**Serial number:** NA
Construction date: Pre-1970	**Installation date:** Pre-1970	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 400		
Maximum Hourly Throughput: **400**	**Maximum Annual Throughput:** 3,500,000 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	--	--
Particulate Matter (PM_{10})	--	--
Total Particulate Matter (TSP)	50	--
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Allowable PM Stack Emissions (Type 'a' Source Operation)
[45CSR§7-4.1] [Stacks 1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40, Wsc#2

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
The following scrubber pressure drop range obtained from stack test and historical data is an indicator of compliance for the scrubber to attain the required minimum particulate removal efficiency. Scrubber pressure drop shall be monitored at least once per day. An excursion shall be defined as when the scrubber pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the scrubber and corrective actions shall be taken to return the pressure drop within the following range: Wsc#2, Wet Scrubber: 1.5-7.0 (in H2O)

According to the CAM plan submitted, the pressure drop across the wet scrubber shall be measured continuously during operation of the emission units. [40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Wsc#2]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

The wet scrubber Wsc#2 shall be observed daily during periods of normal facility operation for a sufficient time interval to determine if the unit has any visible emissions using 40 C.F.R. 60 Appendix A, Method 22. If visible emissions are observed, visible emissions evaluations in accordance with §A shall be conducted as soon as practicable, but no later than one week from the time of the observation. A visible emissions evaluations in accordance with 45CSR7A shall not be required under condition R30-06500001-2008 (S0M1) Section 6.2.2 if the visible emissions condition is corrected in a timely manner; the scrubber is operating at normal operating conditions; and, the cause and corrective measures taken are recorded. [45CSR§30-5.1c] [Wsc#2]

Testing Requirements
NA [R30-06500001-2008 (S0M1) sections 6.3.]

Recordkeeping Requirements
Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2008 (S0M1) sections 6.2.2 will be recorded. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter and the wet scrubber during operation on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

Qualified personnel shall perform visual inspections of the fabric filters and wet scrubber control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters and wet scrubber. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

General recordkeeping requirements. (1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting

information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.]

Reporting Requirements
Reporting will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.
(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:
(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: DRYER1 (3s)	**Emission unit name:** Wet Processing Plant (Rod Mill Building)	**List any control devices associated with this emission unit:** WSc #3
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Dryers - Fluid Bed Dryer (3S), Stack #3		
Manufacturer: Sly	**Model number:** Impinjet 1130	**Serial number:**
Construction date: 1975	**Installation date:** 1975	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 200		
Maximum Hourly Throughput: **200**	**Maximum Annual Throughput:** 1,750,000 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? Yes		**If yes, is it?** propane, #2 Fuel Oil, #4 Fuel Oil, #5 Fuel Oil, #6 Fuel Oil, natural gas and Recycled Fuel Oil
Maximum design heat input and/or maximum horsepower rating: 71 MMBtu/hr (HHV)		**Type and Btu/hr rating of burners:** **71,000,000 Btu/hr (HHV)**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas & Propane	negligible	negligible	1050 BTU/scf
Recycled Fuel Oil	1.5 %	negligible	140,000 BTU/gal
Distillate Oils	1.2 %	negligible	150,000 BTU/gal
Residual Oils	1.5 %	0.05-0.1	140,000 BTU/gal

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	2.52	
Nitrogen Oxides (NO_X)	18.3	
Lead (Pb)	negligible	negligible
Particulate Matter ($PM_{2.5}$)	12.8	
Particulate Matter (PM_{10})	12.8	
Total Particulate Matter (TSP)	12.8	
Sulfur Dioxide (SO_2)	130.7	
Volatile Organic Compounds (VOC)	0.23	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
All	Insignificant	Insignificant
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
The Fluid Bed dryer (3S) and the Rotary dryer (8S) shall burn the following fuels: propane, #2 Fuel Oil, #4 Fuel Oil, #5 Fuel Oil, #6 Fuel Oil, natural gas and Recycled Fuel Oil. [45CSR13, R13-0715, A.2] [3S, 8S]

The following sulfur limits shall not be exceeded: #2 Fuel Oil shall have a maximum of 0.2% S by weight. #4, # 5 and #6 Fuel Oil and Recycled oil shall have a maximum of 1.5 % sulfur by weight. [45CSR13, R13-0715, A.3] [3S, 8S]
Combined emissions from the Fluid Bed Dryer (3S) and Rotary Dryer (8S) shall not exceed the following annual limitations in Tons per year (TPY):
Particulate Matter: 95.48
SO2: 267.0
NOx: 96.35
VOC: 1.27
CO: 13.75
[45CSR13, R13-0715, A.6] [3S, 8S]

The fuel rating of the recycled oil shall not exceed 150,000 BTU/gallon. [45CSR13, R13-0715, A.7] [3S, 8S]

The following conditions shall be followed by the permittee for the use of Recycled Oil as dryer fuel:
a. The registrant shall not receive, store, burn or fire any recycled oil which is considered a hazardous waste or does not meet the used oil specifications below (40 C.F.R. 279.11, Table 1 & Recycled Oil specification provided by U.S.Silica). The burning of recycled oil that does not meet these specifications shall constitute a violation of 45CSR25, 33CSR20 and the requirements, provisions, standards and conditions of this Permit.

Maximum Allowable Specification
Arsenic: <5.0 ppm
Cadmium: <2.0 ppm
Chromium:<10.0 ppm
Lead: <100.0 ppm
PCBs: <2.0 ppm
Total Halogen: <1000.0 ppm
Flash Point: >100.0 Degrees F

b. The registrant shall receive a chemical analysis with each shipment or delivery of recycled oil from the supplier or marketer. The analysis shall identify the name and address of the supplier or marketer, the supplier or marketer's USEPA Identification Number and the following used or recycled oil information:
i. Date of shipment or delivery
ii. Quantity received
iii. Arsenic content
iv. Cadmium content
v. Chromium content
vi. Lead content
vii. PCB content
viii. Total Halogen content
ix. Flash point
x. Sulfur content

c. The Director or his or her duly authorized representative may conduct or require the permittee to conduct detailed chemical analyses of any used or recycled oil received, stored or fired in the dryer burner. [45CSR13, R13-0715,

A.9] [3S, 8S]

The permitted facility shall comply with all provisions of 45CSR10, provided that the permittee shall comply with any more stringent requirements as may be set forth under Sections 4.1.1 to 4.1.7, 4.2.1, 4.4.1 to 4.4.4 of the permit. The principal provisions of 45CSR10 are as follows:
§45-10-3.3 - Maximum Allowable Emission Rates for Similar Units in All Priority III Regions Except Region IV. No person shall cause, suffer, allow, or permit the discharge of sulfur dioxide into the open air from all stacks located at one plant, measured in terms of pounds per hour, in excess of the amount determined as follows:

(3.3.f) - For Type 'b' and Type 'c' fuel burning units, the product of 3.2 and the total design heat inputs for such units discharging through those stacks in million BTU's per hour.

§45-10-3.4.a. - Unless otherwise approved by the Director, the maximum allowable emission rate for an individual stack shall not exceed by more than twenty-five percent (25%) the emission rate determined by prorating the total allowable emission rate based on the basis of individual unit heat input at design capacity for all fuel burning units discharging through that stack.

§45-10-4.1. - No person shall cause, suffer, allow, or permit, the emission into the open air from any source operation an in-stack sulfur dioxide concentration exceeding 2,000 parts per million by volume from existing source operations.

§45-10-8.2.a. - At the request of the Director the owner and/or operator of a source shall install such stack gas monitoring devices as the Director deems necessary to determine compliance with the provisions of this rule. The data from such devices shall be readily available at the source location or such other reasonable location that the Director may specify. At the request of the Director, or his or her duly authorized representative, such data shall be made available for inspection or copying. Failure to promptly provide such data shall constitute a violation of this rule. [45CSR13, R13-0715, B.4] [3S, 8S]

At such reasonable times as the Director may designate, the owner or operator of any fuel burning unit(s), manufacturing process source(s) or combustion source(s) may be required to conduct or have conducted tests to determine the compliance of such source(s) with the emission limitations of sections 45CSR§§10-3, 4 or 5. Such tests shall be conducted in accordance with the appropriate test method set forth in 40 CFR Part 60, Appendix A, Method 6, Method 15 or other equivalent EPA testing method approved by the Director. The Director, or his or her duly authorized representa¬tive, may at his or her option witness or conduct such tests. Should the Director exercise his or her option to conduct such tests, the operator will provide all necessary sampling connections and sampling ports to be located in such manner as the Director may require, power for test equipment, and the required safety equipment such as scaffolding, railings, and ladders to comply with generally accepted good safety practices. [45CSR§10-8.1a] [3S, 8S]

The Director, or his duly authorized representative, may conduct such other tests as he or she may deem necessary to evaluate air pollution emissions other than those noted in section 45CSR§10-3. [45CSR§10-8.1b] [3S, 8S]

The owner or operator of fuel burning unit(s), manufacturing process source(s) or combustion source(s) shall demonstrate compliance with sections 45CSR§§10-3, 4 and 5 of this rule by testing and /or monitoring in accordance with one or more of the following: 40 CFR Part 60, Appendix A, Method 6, Method 15, continuous emissions monitoring systems (CEMS) or fuel sampling and analysis as set forth in an approved monitoring plan for each emission unit. [45CSR§10-8.2c] [3S, 8S]

Monitoring plans pursuant to subsection 45CSR§10-8.2.c shall be submitted to the Director within six (6) months of the effective date of this rule. Approval or denial of such plans shall be within twelve (12) months of the effective date of this rule. (Monitoring Plan approved on April 25, 2003. Compliance with terms and conditions of 45CSR13, R13-0715F assures compliance with 45CSR10 and 10A) [45CSR§10-8.2.c.2] [3S, 8S]

The owner or operator of fuel burning unit(s), manufacturing process source(s) or combustion source(s) subject to sections 45CSR§§10-3, 4 or 5 shall maintain on-site a record of all required monitoring data as established in a monitoring plan pursuant to subdivision 45CSR§10-8.2.c. Such records shall be made available to the Director or his duly authorized representative upon request. Such records shall be retained on-site for a minimum of five years.

[45CSR§10-8.3.a.] [3S, 8S]

The owner or operator shall submit a periodic exception report to the Director, in a manner specified by the Director. Such an exception report shall provide details of all excursions outside the range of measured emissions or monitored parameters established in an approved monitoring plan and shall include, but not be limited to, the time of the excursion, the magnitude of the excursion, the duration of the excursion, the cause of the excursion and the corrective action taken. [45CSR§10-8.3.b.] [3S, 8S]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements

Compliance with Section 3 of 45CSR7 shall be determined by conducting daily visual emission observations in accordance with Method 22 of 40 CFR 60, Appendix A for the scrubber. These observations shall be conducted during periods of normal facility operation for a sufficient time interval to determine if the unit has visible emissions using procedures outlined in 40CFR60 Appendix A, Method 22. If sources of visible emissions are identified during the survey, the permittee shall conduct an opacity evaluation as outlined in 45CSR7A-2.1.a,b, within 24 hours. A 45CSR7A-2.1.a,b evaluation shall not be required if the visible emission condition is corrected in a timely manner and the units are operated at normal operating conditions with no visible emissions being observed. Records shall be maintained on site reporting the results of each test. Said opacity evaluations of sources identified during the Method 22 survey shall only be conducted by an employee or contractor certified in 40CFR60 Appendix A, Method 9, Visible Emission observations. Upon observing any visible emissions in excess of twenty percent (20%) opacity, or excess of forty (40%) for any period or periods aggregating more than five (5) minutes in any sixty (60) minute period, the Company shall submit a written report, certified by a responsible official, to the Director of the Division of Air Quality within five (5) days after taking said reading. When in compliance on a daily basis for four (4) consecutive weeks, then the observation frequency shall be decreased to a once-a-week sampling schedule. If an exceedance of the opacity limit is measured, then the observation frequency shall be reverted to the once-a-day sampling schedule. [45CSR13, R13-0715, A.12] [3S, 8S]

The Fluid Bed Dryer and the Rotary dryer shall be observed visually at least each calendar week during periods of normal facility operation for a sufficient time interval to determine if the unit has any visible emissions using 40C.F.R.Part 60 Appendix A, Method 22. If visible emissions from any of the emissions units are observed during these weekly observations, or at any other time, visible emissions evaluations in accordance with 40C.F.R. 60 Appendix A, Method 9 shall be conducted as soon as practicable, but no later than one (1) month from the time of the observation. However a Method 9 evaluation shall not be required if the visible emissions condition is corrected in a timely manner; the emissions unit is operating at normal operating conditions; and, the cause and corrective measures taken are recorded. [45CSR13, R13-0715, A.13] [3S, 8S]

Testing Requirements

Tests that are required by the Director to determine compliance with the emission limitations set forth in 4.1.4 and 4.1.5 of this permit shall be conducted in accordance with the methods as set forth below. The Director may require a different test method or approve an alternative method in light of any new technology advancements that may occur. Compliance testing shall be conducted at 100% of the peak load unless otherwise specified by the Director.
a. Tests to determine compliance with PM emission limits shall be conducted in accordance with Method 5, 5A, 5B, 5C, 5D, 5E, 5F, 5G, or 5H as set forth in 40 CFR 60, Appendix A. [45CSR13, R13-0715, B.7] [3S, 8S]

With regard to any testing required by the Director, the permittee shall submit to the Director of the division of Air Quality a test protocol detailing the proposed test methods, the date, and the time the proposed testing is to take place, as well as identifying the sampling locations and other relevant information. The test protocol must be received by the Director no less than thirty (30) days prior to the date the testing is to take place. Test results shall be submitted to the Director no more than sixty (60) days after the date the testing takes place. [45CSR13, R13-0715, B.8] [3S, 8S]

Within 180 days of the permit approval, and once per permit term, the permittee shall conduct or have conducted test(s) on the fluid bed and rotary dryers to determine compliance with the Particulate Matter emission limitations as set forth in Sections 4.1.4 & 4.1.5 above. Such Test(s) shall be conducted in accordance with Sections 4.3.1 and 4.3.2 contained herein. The Director, or a duly authorized representative, may witness or conduct such tests. Should the Director exercise this option to conduct such test(s), the operator shall provide all the necessary sampling connections and sampling ports to be located in such manner as the Director may require, power for test equipment, and the required safety equipment such as scaffolding, railings, and ladders to comply with generally accepted good safety practices. [45CSR§30-5.1c] [3S, 8S]
Note: Rotary Dryer tested – 6-2-2004, Fluid Bed Dryer tested – 6-3-2004.

Recordkeeping Requirements
Records of quantity and type of fuel used and the fuel sulfur content analysis shall be retained on-site by the permittee for at least five (5) years. [45CSR13, R13-0715, A.4] [3S, 8S]

Compliance with annual limitations of SO2, NOx, VOC and CO in Section 4.1.5 shall be demonstrated by recordkeeping of monthly fuel use reports and fuel usage limitations conforming to the following equations. Records will be maintained on-site for at least five years and shall be submitted to the Director upon request.
SO2: 142 F2 S2 + 150 F4 S4 + 157 F5 S5 + 157 F6 S6 + 147 FR SR = 534,000 lbs/yr of SO2
NOx : 20 F2 + 20 F4 + 55 F5 + 55 F6 + 19 FR + 100N + 19 P = 192,700 lbs/yr of NOx
CO: 5 F2 + 5 F4 + 5 F5 + 5 F6 + 5 FR + 84 N + 3.2 P = 27,507 lbs/yr of CO
VOC: 0.2 F2 + 0.2 F4 + 0.28 F5 + 0.28 F6 + 0.22 FR + 5.5 N + 0.3 P = 2,541 lbs/yr of VOC

Where:
F2 = #2 Fuel Oil use, in 1000 gallons, for last twelve month period
F4 = #4 Fuel Oil use, in 1000 gallons, for last twelve month period
F5 = #5 Fuel Oil use, in 1000 gallons, for last twelve month period
F6 = #6 Fuel Oil use, in 1000 gallons, for last twelve month period
FR = Recycled Fuel Oil use, in 1000 gallons, for last twelve month period
P = Propane use, in 1000 gallons, for last twelve month period
N = Natural gas use, in million cubic feet of gas, for last twelve month period
S2 = Weighted average sulfur content of all #2 Fuel Oil used in last twelve month period (by weight)
S4 = Weighted average sulfur content of all #4 Fuel Oil used in last twelve month period (by weight)
S5 = Weighted average sulfur content of all #5 Fuel Oil used in last twelve month period (by weight)
S6 = Weighted average sulfur content of all #6 Fuel Oil used in last twelve month period (by weight)
SR = Weighted average sulfur content of all Recycled Oil used in last twelve month period (by weight)
[45CSR13, R13-0715, A.8] [3S, 8S]

Records of each shipment of recycled oil chemical analyses, quantity and type of fuel used, maximum fuel rating (BTU/gallon), and the fuel sulfur analysis shall be retained on-site by the permittee for at least five (5) years. The owner or operator shall keep record of quality control and quality assurance program for the fuel analysis. If a certified lab is used to provide the fuel analysis, the quality control and assurance program is deemed to be satisfactory. The permittee will confirm the certified lab fuel analysis results by using an independent certified lab at least once in every six months to analyze the fuel. [45CSR13, R13-0715, A.10] [3S, 8S]

The permittee shall monitor and record the pressure drop across each scrubber (during operation) on a daily basis. These records shall be kept on site for a minimum of 5 years and made available to the Director or Authorized Representative upon request. [45CSR13, R13-0715, A.11] [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [3S, 8S]

Qualified personnel shall perform visual inspections of the scrubbers at least monthly and perform routine maintenance to assure proper operation of the scrubbers. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [3S, 8S]

General recordkeeping requirements.
(1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained

under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).
(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.
[40 C.F.R. §64.9(b); 45CSR§30-5.1.c.] [3S, 8S]

Reporting Requirements
General reporting requirements.
(1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.
(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:
(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.] [3S, 8S]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: VIBFD5, ELEV4, CONV39-41, CONV29, CONV30, BE01 (E2) and BE02 (E2)	**Emission unit name:** Screening and Unground Sand Processing	**List any control devices associated with this emission unit:** CF #6
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Wet Processing OperationsPlant (Rod Mill Building) except CONV54, MILL8, SCREN16		
Manufacturer: Donaldson	**Model number:** Torit DFA - 155	**Serial number:** NA
Construction date: Pre-1975	**Installation date:** Pre-1975	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 30		
Maximum Hourly Throughput: **30**	**Maximum Annual Throughput:** 262,000 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	--	--
Particulate Matter (PM_{10})	--	--
Total Particulate Matter (TSP)	43	--
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Allowable PM Stack Emissions (Type 'a' Source Operation)
[45CSR§7-4.1] [Stacks 1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40, Wsc#2

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
According to the CAM plan submitted, the differential pressure gauges for the filters shall be operated continuously during operation of the emission units. [40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stacks #1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

Testing Requirements
NA [R30-06500001-2008 (S0M1) sections 6.3.]

Recordkeeping Requirements
Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2008 (S0M1) sections 6.2.2 will be recorded. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter and the wet scrubber during operation on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

Qualified personnel shall perform visual inspections of the fabric filters and wet scrubber control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters and wet scrubber. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

General recordkeeping requirements. (1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.]

Reporting Requirements
Reporting will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.
(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:
(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: ELEV1, ELEV2, ELEV3, SCREN10-13 & SCREN22-23 & SCREN4, CONV31, CONV33, TANKS #7, #8, #13 and #14	**Emission unit name:** Screening and Unground Sand Processing	**List any control devices associated with this emission unit:** CF #7
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Screening and Unground Sand Processing except SCREN 7-9, 14-15 (Stack #6, 7, 27 & 40)		
Manufacturer: Donaldson	**Model number:** Torit DFT-32-SH	**Serial number:** NA
Construction date: Pre-1975	**Installation date:** Pre-1975	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 200		
Maximum Hourly Throughput: **200**	**Maximum Annual Throughput:** 1,750,000 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	--	--
Particulate Matter (PM_{10})	--	--
Total Particulate Matter (TSP)	43	--
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Allowable PM Stack Emissions (Type 'a' Source Operation)
[45CSR§7-4.1] [Stacks 1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40, Wsc#2

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
According to the CAM plan submitted, the differential pressure gauges for the filters shall be operated continuously during operation of the emission units. [40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stacks #1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

Testing Requirements
NA [R30-06500001-2008 (S0M1) sections 6.3.]

Recordkeeping Requirements
Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2008 (S0M1) sections 6.2.2 will be recorded. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter and the wet scrubber during operation on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

Qualified personnel shall perform visual inspections of the fabric filters and wet scrubber control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters and wet scrubber. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

General recordkeeping requirements. (1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.]

Reporting Requirements
Reporting will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.
(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:
(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: DRYER2 (8s)	**Emission unit name:** Wet Float Plant	**List any control devices associated with this emission unit:** WSc #8
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Rotary Dryer (8S), Stack #8]		
Manufacturer: In House	**Model number:** NA	**Serial number:**
Construction date: Pre-1970	**Installation date:** Pre-1970	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 100		
Maximum Hourly Throughput: **100**	**Maximum Annual Throughput:** 876,000 TPY	**Maximum Operating Schedule:**
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel?		**If yes, is it?** propane, #2 Fuel Oil, #4 Fuel Oil, #5 Fuel Oil, #6 Fuel Oil, natural gas and Recycled Fuel Oil
Maximum design heat input and/or maximum horsepower rating: 17.1 MMBtu/hr		**Type and Btu/hr rating of burners:** **17,000,000 Btu/hr**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Natural Gas & Propane	negligible	negligible	1050 BTU/scf
Recycled Fuel Oil	1.5 %	negligible	140,000 BTU/gal
Distillate Oils	1.2 %	negligible	150,000 BTU/gal
Residual Oils	1.5 %	0.05-0.1	140,000 BTU/gal

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.62	
Nitrogen Oxides (NO_X)	3.7	
Lead (Pb)	negligible	negligible
Particulate Matter ($PM_{2.5}$)	9.0	
Particulate Matter (PM_{10})	9.0	
Total Particulate Matter (TSP)	9.0	
Sulfur Dioxide (SO_2)	26.3	
Volatile Organic Compounds (VOC)	0.06	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
All	Insignificant	Insignificant
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
The Fluid Bed dryer (3S) and the Rotary dryer (8S) shall burn the following fuels: propane, #2 Fuel Oil, #4 Fuel Oil, #5 Fuel Oil, #6 Fuel Oil, natural gas and Recycled Fuel Oil. [45CSR13, R13-0715, A.2] [3S, 8S]

The following sulfur limits shall not be exceeded: #2 Fuel Oil shall have a maximum of 0.2% S by weight. #4, # 5 and #6 Fuel Oil and Recycled oil shall have a maximum of 1.5 % sulfur by weight. [45CSR13, R13-0715, A.3] [3S, 8S]
Combined emissions from the Fluid Bed Dryer (3S) and Rotary Dryer (8S) shall not exceed the following annual limitations in Tons per year (TPY):
Particulate Matter: 95.48
SO2: 267.0
NOx: 96.35
VOC: 1.27
CO: 13.75
[45CSR13, R13-0715, A.6] [3S, 8S]

The fuel rating of the recycled oil shall not exceed 150,000 BTU/gallon. [45CSR13, R13-0715, A.7] [3S, 8S]

The following conditions shall be followed by the permittee for the use of Recycled Oil as dryer fuel:
a. The registrant shall not receive, store, burn or fire any recycled oil which is considered a hazardous waste or does not meet the used oil specifications below (40 C.F.R. 279.11, Table 1 & Recycled Oil specification provided by U.S.Silica). The burning of recycled oil that does not meet these specifications shall constitute a violation of 45CSR25, 33CSR20 and the requirements, provisions, standards and conditions of this Permit.

Maximum Allowable Specification
Arsenic: <5.0 ppm
Cadmium: <2.0 ppm
Chromium:<10.0 ppm
Lead: <100.0 ppm
PCBs: <2.0 ppm
Total Halogen: <1000.0 ppm
Flash Point: >100.0 Degrees F

b. The registrant shall receive a chemical analysis with each shipment or delivery of recycled oil from the supplier or marketer. The analysis shall identify the name and address of the supplier or marketer, the supplier or marketer's USEPA Identification Number and the following used or recycled oil information:
i. Date of shipment or delivery
ii. Quantity received
iii. Arsenic content
iv. Cadmium content
v. Chromium content
vi. Lead content
vii. PCB content
viii. Total Halogen content
ix. Flash point
x. Sulfur content

c. The Director or his or her duly authorized representative may conduct or require the permittee to conduct detailed chemical analyses of any used or recycled oil received, stored or fired in the dryer burner. [45CSR13, R13-0715,

A.9] [3S, 8S]

The permitted facility shall comply with all provisions of 45CSR10, provided that the permittee shall comply with any more stringent requirements as may be set forth under Sections 4.1.1 to 4.1.7, 4.2.1, 4.4.1 to 4.4.4 of the permit. The principal provisions of 45CSR10 are as follows:
§45-10-3.3 - Maximum Allowable Emission Rates for Similar Units in All Priority III Regions Except Region IV. No person shall cause, suffer, allow, or permit the discharge of sulfur dioxide into the open air from all stacks located at one plant, measured in terms of pounds per hour, in excess of the amount determined as follows:

(3.3.f) - For Type 'b' and Type 'c' fuel burning units, the product of 3.2 and the total design heat inputs for such units discharging through those stacks in million BTU's per hour.

§45-10-3.4.a. - Unless otherwise approved by the Director, the maximum allowable emission rate for an individual stack shall not exceed by more than twenty-five percent (25%) the emission rate determined by prorating the total allowable emission rate based on the basis of individual unit heat input at design capacity for all fuel burning units discharging through that stack.

§45-10-4.1. - No person shall cause, suffer, allow, or permit, the emission into the open air from any source operation an in-stack sulfur dioxide concentration exceeding 2,000 parts per million by volume from existing source operations.

§45-10-8.2.a. - At the request of the Director the owner and/or operator of a source shall install such stack gas monitoring devices as the Director deems necessary to determine compliance with the provisions of this rule. The data from such devices shall be readily available at the source location or such other reasonable location that the Director may specify. At the request of the Director, or his or her duly authorized representative, such data shall be made available for inspection or copying. Failure to promptly provide such data shall constitute a violation of this rule. [45CSR13, R13-0715, B.4] [3S, 8S]

At such reasonable times as the Director may designate, the owner or operator of any fuel burning unit(s), manufacturing process source(s) or combustion source(s) may be required to conduct or have conducted tests to determine the compliance of such source(s) with the emission limitations of sections 45CSR§§10-3, 4 or 5. Such tests shall be conducted in accordance with the appropriate test method set forth in 40 CFR Part 60, Appendix A, Method 6, Method 15 or other equivalent EPA testing method approved by the Director. The Director, or his or her duly authorized representa¬tive, may at his or her option witness or conduct such tests. Should the Director exercise his or her option to conduct such tests, the operator will provide all necessary sampling connections and sampling ports to be located in such manner as the Director may require, power for test equipment, and the required safety equipment such as scaffolding, railings, and ladders to comply with generally accepted good safety practices. [45CSR§10-8.1a] [3S, 8S]

The Director, or his duly authorized representative, may conduct such other tests as he or she may deem necessary to evaluate air pollution emissions other than those noted in section 45CSR§10-3. [45CSR§10-8.1b] [3S, 8S]

The owner or operator of fuel burning unit(s), manufacturing process source(s) or combustion source(s) shall demonstrate compliance with sections 45CSR§§10-3, 4 and 5 of this rule by testing and /or monitoring in accordance with one or more of the following: 40 CFR Part 60, Appendix A, Method 6, Method 15, continuous emissions monitoring systems (CEMS) or fuel sampling and analysis as set forth in an approved monitoring plan for each emission unit. [45CSR§10-8.2c] [3S, 8S]

Monitoring plans pursuant to subsection 45CSR§10-8.2.c shall be submitted to the Director within six (6) months of the effective date of this rule. Approval or denial of such plans shall be within twelve (12) months of the effective date of this rule. (Monitoring Plan approved on April 25, 2003. Compliance with terms and conditions of 45CSR13, R13-0715F assures compliance with 45CSR10 and 10A) [45CSR§10-8.2.c.2] [3S, 8S]

The owner or operator of fuel burning unit(s), manufacturing process source(s) or combustion source(s) subject to sections 45CSR§§10-3, 4 or 5 shall maintain on-site a record of all required monitoring data as established in a monitoring plan pursuant to subdivision 45CSR§10-8.2.c. Such records shall be made available to the Director or his duly authorized representative upon request. Such records shall be retained on-site for a minimum of five years.

[45CSR§10-8.3.a.] [3S, 8S]

The owner or operator shall submit a periodic exception report to the Director, in a manner specified by the Director. Such an exception report shall provide details of all excursions outside the range of measured emissions or monitored parameters established in an approved monitoring plan and shall include, but not be limited to, the time of the excursion, the magnitude of the excursion, the duration of the excursion, the cause of the excursion and the corrective action taken. [45CSR§10-8.3.b.] [3S, 8S]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements

Compliance with Section 3 of 45CSR7 shall be determined by conducting daily visual emission observations in accordance with Method 22 of 40 CFR 60, Appendix A for the scrubber. These observations shall be conducted during periods of normal facility operation for a sufficient time interval to determine if the unit has visible emissions using procedures outlined in 40CFR60 Appendix A, Method 22. If sources of visible emissions are identified during the survey, the permittee shall conduct an opacity evaluation as outlined in 45CSR7A-2.1.a,b, within 24 hours. A 45CSR7A-2.1.a,b evaluation shall not be required if the visible emission condition is corrected in a timely manner and the units are operated at normal operating conditions with no visible emissions being observed. Records shall be maintained on site reporting the results of each test. Said opacity evaluations of sources identified during the Method 22 survey shall only be conducted by an employee or contractor certified in 40CFR60 Appendix A, Method 9, Visible Emission observations. Upon observing any visible emissions in excess of twenty percent (20%) opacity, or excess of forty (40%) for any period or periods aggregating more than five (5) minutes in any sixty (60) minute period, the Company shall submit a written report, certified by a responsible official, to the Director of the Division of Air Quality within five (5) days after taking said reading. When in compliance on a daily basis for four (4) consecutive weeks, then the observation frequency shall be decreased to a once-a-week sampling schedule. If an exceedance of the opacity limit is measured, then the observation frequency shall be reverted to the once-a-day sampling schedule. [45CSR13, R13-0715, A.12] [3S, 8S]

The Fluid Bed Dryer and the Rotary dryer shall be observed visually at least each calendar week during periods of normal facility operation for a sufficient time interval to determine if the unit has any visible emissions using 40C.F.R.Part 60 Appendix A, Method 22. If visible emissions from any of the emissions units are observed during these weekly observations, or at any other time, visible emissions evaluations in accordance with 40C.F.R. 60 Appendix A, Method 9 shall be conducted as soon as practicable, but no later than one (1) month from the time of the observation. However a Method 9 evaluation shall not be required if the visible emissions condition is corrected in a timely manner; the emissions unit is operating at normal operating conditions; and, the cause and corrective measures taken are recorded. [45CSR13, R13-0715, A.13] [3S, 8S]

Testing Requirements

Tests that are required by the Director to determine compliance with the emission limitations set forth in 4.1.4 and 4.1.5 of this permit shall be conducted in accordance with the methods as set forth below. The Director may require a different test method or approve an alternative method in light of any new technology advancements that may occur. Compliance testing shall be conducted at 100% of the peak load unless otherwise specified by the Director.
a. Tests to determine compliance with PM emission limits shall be conducted in accordance with Method 5, 5A, 5B, 5C, 5D, 5E, 5F, 5G, or 5H as set forth in 40 CFR 60, Appendix A. [45CSR13, R13-0715, B.7] [3S, 8S]

With regard to any testing required by the Director, the permittee shall submit to the Director of the division of Air Quality a test protocol detailing the proposed test methods, the date, and the time the proposed testing is to take place, as well as identifying the sampling locations and other relevant information. The test protocol must be received by the Director no less than thirty (30) days prior to the date the testing is to take place. Test results shall be submitted to the Director no more than sixty (60) days after the date the testing takes place. [45CSR13, R13-0715, B.8] [3S, 8S]

Within 180 days of the permit approval, and once per permit term, the permittee shall conduct or have conducted test(s) on the fluid bed and rotary dryers to determine compliance with the Particulate Matter emission limitations as set forth in Sections 4.1.4 & 4.1.5 above. Such Test(s) shall be conducted in accordance with Sections 4.3.1 and 4.3.2 contained herein. The Director, or a duly authorized representative, may witness or conduct such tests. Should the Director exercise this option to conduct such test(s), the operator shall provide all the necessary sampling connections and sampling ports to be located in such manner as the Director may require, power for test equipment, and the required safety equipment such as scaffolding, railings, and ladders to comply with generally accepted good safety practices. [45CSR§30-5.1c] [3S, 8S]
Note: Rotary Dryer tested – 6-2-2004, Fluid Bed Dryer tested – 6-3-2004.

Recordkeeping Requirements
Records of quantity and type of fuel used and the fuel sulfur content analysis shall be retained on-site by the permittee for at least five (5) years. [45CSR13, R13-0715, A.4] [3S, 8S]

Compliance with annual limitations of SO2, NOx, VOC and CO in Section 4.1.5 shall be demonstrated by recordkeeping of monthly fuel use reports and fuel usage limitations conforming to the following equations. Records will be maintained on-site for at least five years and shall be submitted to the Director upon request.
SO2: 142 F2 S2 + 150 F4 S4 + 157 F5 S5 + 157 F6 S6 + 147 FR SR = 534,000 lbs/yr of SO2
NOx : 20 F2 + 20 F4 + 55 F5 + 55 F6 + 19 FR + 100N + 19 P = 192,700 lbs/yr of NOx
CO: 5 F2 + 5 F4 + 5 F5 + 5 F6 + 5 FR + 84 N + 3.2 P = 27,507 lbs/yr of CO
VOC: 0.2 F2 + 0.2 F4 + 0.28 F5 + 0.28 F6 + 0.22 FR + 5.5 N + 0.3 P = 2,541 lbs/yr of VOC

Where:
F2 = #2 Fuel Oil use, in 1000 gallons, for last twelve month period
F4 = #4 Fuel Oil use, in 1000 gallons, for last twelve month period
F5 = #5 Fuel Oil use, in 1000 gallons, for last twelve month period
F6 = #6 Fuel Oil use, in 1000 gallons, for last twelve month period
FR = Recycled Fuel Oil use, in 1000 gallons, for last twelve month period
P = Propane use, in 1000 gallons, for last twelve month period
N = Natural gas use, in million cubic feet of gas, for last twelve month period
S2 = Weighted average sulfur content of all #2 Fuel Oil used in last twelve month period (by weight)
S4 = Weighted average sulfur content of all #4 Fuel Oil used in last twelve month period (by weight)
S5 = Weighted average sulfur content of all #5 Fuel Oil used in last twelve month period (by weight)
S6 = Weighted average sulfur content of all #6 Fuel Oil used in last twelve month period (by weight)
SR = Weighted average sulfur content of all Recycled Oil used in last twelve month period (by weight)
[45CSR13, R13-0715, A.8] [3S, 8S]

Records of each shipment of recycled oil chemical analyses, quantity and type of fuel used, maximum fuel rating (BTU/gallon), and the fuel sulfur analysis shall be retained on-site by the permittee for at least five (5) years. The owner or operator shall keep record of quality control and quality assurance program for the fuel analysis. If a certified lab is used to provide the fuel analysis, the quality control and assurance program is deemed to be satisfactory. The permittee will confirm the certified lab fuel analysis results by using an independent certified lab at least once in every six months to analyze the fuel. [45CSR13, R13-0715, A.10] [3S, 8S]

The permittee shall monitor and record the pressure drop across each scrubber (during operation) on a daily basis. These records shall be kept on site for a minimum of 5 years and made available to the Director or Authorized Representative upon request. [45CSR13, R13-0715, A.11] [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [3S, 8S]

Qualified personnel shall perform visual inspections of the scrubbers at least monthly and perform routine maintenance to assure proper operation of the scrubbers. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [3S, 8S]

General recordkeeping requirements.
(1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained

under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).
(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.
[40 C.F.R. §64.9(b); 45CSR§30-5.1.c.] [3S, 8S]

Reporting Requirements
General reporting requirements.
(1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.
(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:
(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.] [3S, 8S]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: SCREN17, SCREN18 (1s and 2s) AND SCREW31	**Emission unit name:** Wet Float Plant	**List any control devices associated with this emission unit:** CF #9
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Two Rotex Screens at the Wet Float Plant		
Manufacturer: Donaldson	**Model number:** Torit 4DFT 32-155	**Serial number:** NA
Construction date: Pre-1970	**Installation date:** Pre-1970	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 100		
Maximum Hourly Throughput: **100**	**Maximum Annual Throughput:** 876000 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	1.4	6.0
Particulate Matter (PM_{10})	1.4	6.0
Total Particulate Matter (TSP)	1.4	6.0
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:

Hourly emission rate based on a PM emission rate of 0.022 grains/dscf (0.05 grams/dscm) and a maximum dust collector gas flow of 7,212 dcfm.

Annual emission rate based on 8,760 hours of operation per year.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
The maximum hourly rate of sand to the two (2) new Rotex Screens (Equipment ID Nos.: 1s and 2s) (SCREN 17 & SCREN 18) shall not exceed 50 TPH per screen and 100 TPH total. [45CSR13, R13-2423, A.1] [SCREN 17&18]

The maximum annual rate of sand to the two (2) new Rotex Screens (Equipment ID Nos.: 1s and 2s) (SCREN17 & SCREN 18) shall not exceed 438,000 TPY per screen and 876,000 TPY total. [45CSR13, R13-2423, A.2] [SCREN 17&18]

The permittee shall operate the air pollution control device, the Torit Model No. 4DF32-155 Pulse Type Cartridge Dust Collector (Emission Point ID No. 1E) (Stack #9), as outlined in Permit Application R13-2423. [45CSR13, R13-2423, A.3] [Stack # 9]

In accordance with the requirements of 40 CFR 60, Subpart OOO, the maximum particulate (PM) emissions from the air pollution control device, the Torit Model No. 4DF32-155 Pulse Type Cartridge Dust Collector (Emission Point ID No. 1E) (Stack #9), shall not exceed 0.022 grains per dry standard cubic foot (0.05 grams per dry standard meter). [45CSR13, R13-2423, A.4; 40 C.F.R. § 60.672; 45CSR16] [Stack # 9]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Testing Requirements
The owner or operator shall determine compliance with the particulate matter standards in R30-06500001-2008 (SM01) Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

Recordkeeping Requirements
For the purpose of determining compliance with the process rate limitation set forth in R30-06500001-2008 (SM01) Sections 5.1.8.1 and 5.1.8.2, the permittee shall maintain monthly and annual records on the processing rate of sand to the two (2) new Rotex Screens (located at the Float Plant). Certified copies of said records shall be made available to the Director or his/her duly authorized representative upon request. The monthly and annual sand processing records may be maintained using the U.S. Silica Company computerized Production Tracking Data System (PTDS). [45CSR13, R13-2423, B.4] [SCREN17 & 18]

General recordkeeping requirements

(1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

For the Torit Model No. 4DF32-155 Pulse Type Cartridge Dust Collector (Equipment ID No. 1C-CF#9):

a. Maintenance records shall be maintained on site for a period of five (5) years. Certified copies of these records shall be made available to the Director or his duly authorized representative upon request.

B. Malfunctions shall be documented in writing and records of these malfunctions maintained at the facility for a period of 5 years. Certified copies of these records shall be made available to the Director or his duly authorized representative upon request. At minimum, the following information shall be documented for each malfunction:
The cause of malfunction.
Steps taken to:
- correct the malfunction.
- minimize emissions during malfunction.
The duration of the malfunction in hours.
The estimated increase in emissions during the malfunction.
Any changes/modifications made to equipment and/or procedures that will help prevent future recurrence of the malfunction. [45CSR13, R13-2423, B.5] [CF#9]

Maintenance records for the Torit Model Number 4DF32-155 Pulse Type Cartridge Dust Collector (Equipment ID No.: 1C-CF#9; Emission Point ID No.: 1E-Stack#9), must be maintained. Records shall be maintained on site for a period of five (5) years. Certified copies of said records shall be made available to the Director or his/her duly authorized representative upon request. [45CSR13, R13-2299, B.5] [Stack#9]

Reporting Requirements
General reporting requirements. (1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.

(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:

(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

ATTACHMENT E - Emission Unit Form

Are you in compliance with all applicable requirements for this emission unit? If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description			
Emission unit ID number: #1 Mill Feed Bin, #2 Mill Feed Bin, AIRSD7, ELEV6, ELEV7, FEEDB1, FEEDB2, MILL2, MILL3, SCREW3, SCREW5 and SCREW6	**Emission unit name:** Milling Process	**List any control devices associated with this emission unit:** CF #10	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Milling Process (Stack #10, 11, 12 &39)			
Manufacturer: Micropul	**Model number:** CFH 40T-20-B	**Serial number:** NA	
Construction date: 1981	**Installation date:** 1981	**Modification date(s):** NA	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 20			
Maximum Hourly Throughput: **20**	**Maximum Annual Throughput:** 175,200 TPY	**Maximum Operating Schedule:** 8760 Hours/Year	
Fuel Usage Data **(fill out all applicable fields)**			
Does this emission unit combust fuel? No		**If yes, is it?**	
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	--	--
Particulate Matter (PM_{10})	--	--
Total Particulate Matter (TSP)	37	--
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Allowable PM Stack Emissions (Type 'a' Source Operation)
[45CSR§7-4.1] [Stacks 1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40, Wsc#2

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
According to the CAM plan submitted, the differential pressure gauges for the filters shall be operated continuously during operation of the emission units. [40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stacks #1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

Testing Requirements
NA [R30-06500001-2008 (S0M1) sections 6.3.]

Recordkeeping Requirements
Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2008 (S0M1) sections 6.2.2 will be recorded. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter and the wet scrubber during operation on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

Qualified personnel shall perform visual inspections of the fabric filters and wet scrubber control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters and wet scrubber. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

General recordkeeping requirements. (1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.]

Reporting Requirements
Reporting will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.
(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:
(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description			
Emission unit ID number: #3 AND #4 MILL FEED BINS, FEEDB3, FEEDB4, MILL4, MILL5, SCREW7, AIRSD8, ELEV8, ELEV9 and PNEU4	**Emission unit name:** Milling Process	**List any control devices associated with this emission unit:** CF #11	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Classification (10/15/30/40 Micron) (Stacks #11 &12)			
Manufacturer: Donaldson	**Model number:** Torit DFT 4-48	**Serial number:** NA	
Construction date: 1981	**Installation date:** 1981	**Modification date(s):** NA	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 20			
Maximum Hourly Throughput: **20**	**Maximum Annual Throughput:** 175,200 TPY	**Maximum Operating Schedule:** 8760 Hours/Year	
Fuel Usage Data **(fill out all applicable fields)**			
Does this emission unit combust fuel? No		**If yes, is it?**	
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	--	--
Particulate Matter (PM_{10})	--	--
Total Particulate Matter (TSP)	37	--
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Allowable PM Stack Emissions (Type 'a' Source Operation)
[45CSR§7-4.1] [Stacks 1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40, Wsc#2

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
According to the CAM plan submitted, the differential pressure gauges for the filters shall be operated continuously during operation of the emission units. [40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stacks #1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

Testing Requirements
NA [R30-06500001-2008 (S0M1) sections 6.3.]

Recordkeeping Requirements
Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2008 (S0M1) sections 6.2.2 will be recorded. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter and the wet scrubber during operation on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

Qualified personnel shall perform visual inspections of the fabric filters and wet scrubber control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters and wet scrubber. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

General recordkeeping requirements. (1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.]

Reporting Requirements
Reporting will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.
(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:
(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: #5 MILL FEED BIN, FEEDB5, MILL6, ELEV10, #6 MILL FEED BIN, FEEDB6, AIRSD3, ELEV11, PNEU2, BIN2, BIN7, #1 AND #2 PUMPS, #2 MICROSIZER FEED BINS, AIRSL12, AIRSL13 and Tailing Bins	**Emission unit name:** Milling Process	**List any control devices associated with this emission unit:** CF #12
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Classification (10/15/30/40 Micron) (Stacks #11 &12)		
Manufacturer: Donaldson	**Model number:** Torit DF-T4-16	**Serial number:** NA
Construction date: 1981	**Installation date:** 1981	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 20		
Maximum Hourly Throughput: **20**	**Maximum Annual Throughput:** 175,200 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	--	--
Particulate Matter (PM_{10})	--	--
Total Particulate Matter (TSP)	37	--
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Allowable PM Stack Emissions (Type 'a' Source Operation)
[45CSR§7-4.1] [Stacks 1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40, Wsc#2

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
According to the CAM plan submitted, the differential pressure gauges for the filters shall be operated continuously during operation of the emission units. [40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stacks #1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

Testing Requirements
NA [R30-06500001-2008 (S0M1) sections 6.3.]

Recordkeeping Requirements
Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2008 (S0M1) sections 6.2.2 will be recorded. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter and the wet scrubber during operation on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

Qualified personnel shall perform visual inspections of the fabric filters and wet scrubber control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters and wet scrubber. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

General recordkeeping requirements. (1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.]

Reporting Requirements
Reporting will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.
(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:
(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description			
Emission unit ID number: ELEV23, CGSTank, PEMCOTank and SPOUT6	**Emission unit name:** 5 Micron Classification	**List any control devices associated with this emission unit:** CF #13	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): 5 Micron Classification (Includes only PEMCO Elevator, PACKR 3, 4 (Stack # 13 & 20)			
Manufacturer: Donaldson	**Model number:** Torit DF-T3-24	**Serial number:** NA	
Construction date: 1998	**Installation date:** 1998	**Modification date(s):** NA	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 250			
Maximum Hourly Throughput: **250**	**Maximum Annual Throughput:** 2190000 TPY	**Maximum Operating Schedule:** 8760 Hours/Year	
Fuel Usage Data **(fill out all applicable fields)**			
Does this emission unit combust fuel? No		**If yes, is it?**	
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	--	--
Particulate Matter (PM_{10})	--	--
Total Particulate Matter (TSP)	47	--
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Allowable PM Stack Emissions (Type 'a' Source Operation)
[45CSR§7-4.1] [Stacks 1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40, Wsc#2

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
According to the CAM plan submitted, the differential pressure gauges for the filters shall be operated continuously during operation of the emission units. [40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stacks #1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

Testing Requirements
NA [R30-06500001-2008 (S0M1) sections 6.3.]

Recordkeeping Requirements
Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2008 (S0M1) sections 6.2.2 will be recorded. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter and the wet scrubber during operation on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

Qualified personnel shall perform visual inspections of the fabric filters and wet scrubber control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters and wet scrubber. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

General recordkeeping requirements. (1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.]

Reporting Requirements
Reporting will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.
(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:
(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: PACKR3 and PACKR4	**Emission unit name:** 5 Micron Classification	**List any control devices associated with this emission unit:** CF #20
Provide a description of the emission unit (type, method of operation, design parameters, etc.): 5 Micron Classification (Includes only PEMCO Elevator, PACKR 3, 4 (Stack # 13 & 20)		
Manufacturer: Donaldson	**Model number:** Torit DF-T4-16	**Serial number:** NA
Construction date: 1981	**Installation date:** 1981	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 20		
Maximum Hourly Throughput: **20**	**Maximum Annual Throughput:** 175,200 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	--	--
Particulate Matter (PM_{10})	--	--
Total Particulate Matter (TSP)	28	--
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Allowable PM Stack Emissions (Type 'a' Source Operation)
[45CSR§7-4.1] [Stacks 1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40, Wsc#2

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
According to the CAM plan submitted, the differential pressure gauges for the filters shall be operated continuously during operation of the emission units. [40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stacks #1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

Testing Requirements
NA [R30-06500001-2008 (S0M1) sections 6.3.]

Recordkeeping Requirements
Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2008 (S0M1) sections 6.2.2 will be recorded. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter and the wet scrubber during operation on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

Qualified personnel shall perform visual inspections of the fabric filters and wet scrubber control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters and wet scrubber. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

General recordkeeping requirements. (1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.]

Reporting Requirements
Reporting will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.
(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:
(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: SCREN16, CONV25, CONV26 and CONV27	**Emission unit name:** Wet Processing Plant (Rod Mill Building)	**List any control devices associated with this emission unit:** CF #25
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Trash Vibrating Screen (Stack # 25)		
Manufacturer: Donaldson	**Model number:** Torit DF-4DF-48	**Serial number:** NA
Construction date: 1975	**Installation date:** 1975	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 200		
Maximum Hourly Throughput: **200**	**Maximum Annual Throughput:** 1,750,000 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)	1.0	4.4
Particulate Matter (PM_{10})	1.0	4.4
Total Particulate Matter (TSP)	1.0	4.4
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
PM emissions from Stack #25 are based on PM not greater than 0.014 grains per dry standard cubic foot of exhaust. [40 C.F.R. §60.672(a) & Table 2 of Subpart OOO; 45CSR16; 45CSR§7-4.1.] Compliance with the concentration limit in R30-06500001-2008 (SM01) 5.1.7.1.c. ensures compliance with 45CSR§7-4.1.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
In accordance with the requirements of 40CFR60, Subpart OOO, the maximum particulate (PM) emissions from air pollution control device CF#25 shall not exceed 0.022 grains per dry standard cubic foot (0.05 grams per dry standard meter). [45CSR13, R13-2015, A.2] [Stack # 25]

The maximum hourly and annual rate of sand to the Trash Vibrating Conveyor (SCREEN), Equipment ID No. TS1(SCREN 16), shall not exceed 220.0 tons/hour and 1,927,200 tons/year. [45CSR13, R13-2015, A.3] [SCREN16]

The Trash Vibrating Conveyor (SCREEN), Equipment ID No. TS1, shall be controlled at all times of operation with a cartridge filter, Control Equipment ID No. CF#25. [45CSR13, R13-2015, A.4] [CF#25]

The permittee shall operate the cartridge filter, Control Equipment ID No.CF#25, as outlined in Permit Application R13-2015. [45CSR13, R13-2015, A.5] [CF#25]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Testing Requirements
The owner or operator shall determine compliance with the particulate matter standards in R30-06500001-2008 (SM01) Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

Recordkeeping Requirements
General recordkeeping requirements

(1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm,

computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Reporting Requirements
General reporting requirements. (1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.

(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:

(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: CONV51, PULVERIZER TANK #19, PULVERIZER TANK #20, #2 FEED SILO, TANKS #9-#12 VENTS AND LOADOUTS, STEEL TANK #21 VENT AND LOADOUT SPOUTS 1 TO 3	**Emission unit name:** Milling Process	**List any control devices associated with this emission unit:** CF #27
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Screening and Unground Sand Processing except SCREN 7-9, 14-15 (Stack #6, 7, 27 &40)		
Manufacturer: Donaldson	**Model number:** Torit DF-T4-16	**Serial number:** NA
Construction date: 1981	**Installation date:** 1981	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 20		
Maximum Hourly Throughput: **20**	**Maximum Annual Throughput:** 175,200 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	--	--
Particulate Matter (PM_{10})	--	--
Total Particulate Matter (TSP)	43	--
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Allowable PM Stack Emissions (Type 'a' Source Operation)
[45CSR§7-4.1] [Stacks 1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40, Wsc#2

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
According to the CAM plan submitted, the differential pressure gauges for the filters shall be operated continuously during operation of the emission units. [40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stacks #1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40]

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

Testing Requirements
NA [R30-06500001-2008 (S0M1) sections 6.3.]

Recordkeeping Requirements
Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2008 (S0M1) sections 6.2.2 will be recorded. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter and the wet scrubber during operation on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

Qualified personnel shall perform visual inspections of the fabric filters and wet scrubber control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters and wet scrubber. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

General recordkeeping requirements. (1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.]

Reporting Requirements
Reporting will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.
(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:
(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: MIN-U-SIL Storage Silos #7, #8, #9 (E1), SPOUT5, Tech Air Pumping Station	**Emission unit name:** Storage Structures	**List any control devices associated with this emission unit:** CF #28
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Silica Sand Storage Silos		
Manufacturer: Donaldson	**Model number:** Torit DF-2D-F4	**Serial number:** NA
Construction date: 1984	**Installation date:** 1984	**Modification date(s):** 1999
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 100		
Maximum Hourly Throughput: **100 TPH**	**Maximum Annual Throughput:** 876000 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	0.7	3.07
Particulate Matter (PM_{10})	0.7	3.07
Total Particulate Matter (TSP)	0.7	3.07
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Hourly PM emission rate is based on 0.022 grains/dscf (0.05grams/dscm) and a maximum dust collector gas flow rate of 3,715 dcfm.

Annual PM emission rate based on 8,760 hours of operation per year. [45CSR13, R13-1970, A.1] [Stack # 28]

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
The permittee shall not discharge into the atmosphere from any transfer point on belt conveyors or from any other affected facility any stack emissions which:

(1) Contain particulate matter in excess of 0.05 g/dscm (0.022 gr/dscf); and
(2) Exhibit greater than 7 percent opacity, unless the stack emissions are discharged from an affected facility using a wet scrubbing control device. Facilities using a wet scrubber must comply with the reporting provisions of 40 C.F.R. § 60.676 ©, (d), and (e).

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible Emissions evaluations will be conducted as specified in Facility-wide requirements 3.2.1, 3.2.2 and 3.2.3. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Testing Requirements
The owner or operator shall determine compliance with the particulate matter standards in Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

Recordkeeping Requirements
The owner or operator shall determine compliance with the particulate matter standards in Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

The permittee shall keep records of monitoring requirements of Section 5.2 as specified in Sections 3.4.1, 3.4.2. [45CSR§30-5.1c]

5.4.12. The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

5.4.13. Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

General recordkeeping requirements

(1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of

this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Reporting Requirements
General reporting requirements. (1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.

(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:

(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: MIN-U-SIL Storage Silos #5 (5e), and Tech Air Pumping Station	**Emission unit name:** Storage Structures	**List any control devices associated with this emission unit:** CF #29
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Silica sand storage silos (Stacks # 28, 29 & 33)		
Manufacturer: Micropul	**Model number:** CFH-18-20-VB	**Serial number:** NA
Construction date: 1984	**Installation date:** 1984	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 125		
Maximum Hourly Throughput: **125 TPH**	**Maximum Annual Throughput:** 1095000 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	0.5	2.2
Particulate Matter (PM_{10})	0.5	2.2
Total Particulate Matter (TSP)	0.5	2.2
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Hourly PM emission rate is based on 0.022 grains/dscf (0.05grams/dscm) and a maximum dust collector gas flow rate of 3,715 dcfm.

Annual PM emission rate based on 8,760 hours of operation per year. [45CSR13, R13-1970, A.1] [Stack # 29]

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
The permittee shall not discharge into the atmosphere from any transfer point on belt conveyors or from any other affected facility any stack emissions which:

(1) Contain particulate matter in excess of 0.05 g/dscm (0.022 gr/dscf); and
(2) Exhibit greater than 7 percent opacity, unless the stack emissions are discharged from an affected facility using a wet scrubbing control device. Facilities using a wet scrubber must comply with the reporting provisions of 40 C.F.R. § 60.676 ©, (d), and (e).

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible Emissions evaluations will be conducted as specified in Facility-wide requirements 3.2.1, 3.2.2 and 3.2.3. [45CSR§30-5.1c]

The permittee shall monitor and maintain records of daily observations of pressure drop across baghouses 2C and 3C. [45CSR13, R13-2595, B.9.] [Baghouses 2C & 3C; Stack # 28, 29 & 41]

The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Testing Requirements
The owner or operator shall determine compliance with the particulate matter standards in Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

Recordkeeping Requirements
The owner or operator shall determine compliance with the particulate matter standards in Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

The permittee shall keep records of monitoring requirements of Section 5.2 as specified in Sections 3.4.1, 3.4.2. [45CSR§30-5.1c]

5.4.12. The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

5.4.13. Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

General recordkeeping requirements

(1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Reporting Requirements
General reporting requirements. (1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.

(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:

(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: SIL-CO-SIL (Supersil) Storage Silos #1 - #4 (1e-4e)	**Emission unit name:** Storage Structures	**List any control devices associated with this emission unit:** CF #33
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Silica sand storage silos (Stacks # 28, 29 & 33)		
Manufacturer: Donaldson	**Model number:** Torit DF-T4-16	**Serial number:** NA
Construction date: 1984	**Installation date:** 1984	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 125		
Maximum Hourly Throughput: **125 TPH**	**Maximum Annual Throughput:** 1095000 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	0.02	0.09
Particulate Matter (PM_{10})	0.02	0.09
Total Particulate Matter (TSP)	0.02	0.09
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Allowable emissions were originally established in Permit No. R13-750 and revised in PD99-127.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
The permittee shall not discharge into the atmosphere from any transfer point on belt conveyors or from any other affected facility any stack emissions which:

(1) Contain particulate matter in excess of 0.05 g/dscm (0.022 gr/dscf); and
(2) Exhibit greater than 7 percent opacity, unless the stack emissions are discharged from an affected facility using a wet scrubbing control device. Facilities using a wet scrubber must comply with the reporting provisions of 40 C.F.R. § 60.676 ©, (d), and (e).

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Testing Requirements
The owner or operator shall determine compliance with the particulate matter standards in R30-06500001-2008 (SM01) Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

Recordkeeping Requirements
General recordkeeping requirements

(1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Reporting Requirements
General reporting requirements. (1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or

operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.

(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:

(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: PACKR5 (1e & 2e)	**Emission unit name:** 5 Micron Classification	**List any control devices associated with this emission unit:** CF #34
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Bulk bagging operation at ground sand packaging (Stack # 34)		
Manufacturer: Donaldson	**Model number:** Torit DF-2DF-4	**Serial number:** NA
Construction date: 1988	**Installation date:** 1988	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 15		
Maximum Hourly Throughput: **10**	**Maximum Annual Throughput:** 87,600 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	0.1	0.44
Particulate Matter (PM_{10})	0.1	0.44
Total Particulate Matter (TSP)	0.1	0.44
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
The maximum process weight rate for the permitted facilities (Ground Sand Packaging/Loading) shall not exceed 10 tons per hour. [45CSR13, R13-991] [Ground Sand Packaging/Loading]

The particulate emission rate for Emission point 1e {Bulk Bagger (PACKR5), Stack # 34} as defined in Permit application No. 991, shall not exceed 0.1 pounds per hour. [45CSR13, R13-991] [Stack # 34, Emission Point 1e]

The particulate emission rate for Emission point 2e (Room Venting, Stack # 34), as defined in Permit application No. 991, shall not exceed 0.5 pounds per hour. [45CSR13, R13-991] [Stack # 34, Emission Point 2e]

Note : In original construction, emission points 1e and 2e were controlled by separate baghouses. Baghouses were replaced by one cartridge filter control device. PD ISSUED 5-16-94.

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible Emissions evaluations will be conducted as specified in Facility-wide requirements 3.2.1, 3.2.2 and 3.2.3. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Testing Requirements
The owner or operator shall determine compliance with the particulate matter standards in Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

Recordkeeping Requirements
The owner or operator shall determine compliance with the particulate matter standards in Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

The permittee shall keep records of monitoring requirements of Section 5.2 as specified in Sections 3.4.1, 3.4.2. [45CSR§30-5.1c]

5.4.12. The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

5.4.13. Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

General recordkeeping requirements

(1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Reporting Requirements
General reporting requirements. (1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.

(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:

(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description			
Emission unit ID number: SCREN7-9 and SCREN14-15 (1E)	**Emission unit name:** Screening and Unground Sand Processing	**List any control devices associated with this emission unit:** CF #36	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Five Rotex screens at New Screen Tower			
Manufacturer: Donaldson	**Model number:** Torit DF-T2-8	**Serial number:** NA	
Construction date: 1995	**Installation date:** 1995	**Modification date(s):** 1997	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 375			
Maximum Hourly Throughput: **375**	**Maximum Annual Throughput:** 3,285,000 TPY	**Maximum Operating Schedule:** 8760 Hours/Year	
Fuel Usage Data **(fill out all applicable fields)**			
Does this emission unit combust fuel? No		**If yes, is it?**	
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	0.014 gr/dscf exhaust	--
Particulate Matter (PM_{10})	0.014 gr/dscf exhaust	--
Total Particulate Matter (TSP)	0.014 gr/dscf exhaust	--
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
PM emissions from Stack #36 are based on PM not greater than 0.014 grains per dry standard cubic foot of exhaust. [40 C.F.R. §60.672(a) & Table 2 of Subpart OOO; 45CSR16; 45CSR§7-4.1.] Compliance with the concentration limit in R30-06500001-2008 (SM01) 5.1.7.1.c. ensures compliance with 45CSR§7-4.1.

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
Fugitive visible emissions from Building #7 (location of the five Rotex Screens) shall not be greater than 10% opacity on a six minute average. [45CSR16; 40 C.F.R. §60.672(b) & Table 3 of Subpart OOO; 45CSR§7-3.1.] Compliance with the opacity limit in 5.1.7.2.b. ensures compliance with 45CSR§7-3.1.

PM emissions from Stack #36 shall not exhibit PM greater than 0.022 grains per dry standard cubic foot of exhaust. [40 C.F.R. §60.672(a) & Table 2 of Subpart OOO; 45CSR16]

Visible emissions from Stack #36 shall not be greater than 7% opacity on a six minute average. [40 C.F.R. §60.672(a) & Table 2 of Subpart OOO; 45CSR16] Compliance with the opacity limit in 5.1.7.2.d. ensures compliance with 45CSR§7-3.1. [45CSR13, R13-2145, 4.1.2.] (Rotex Screens – 1S-5S)

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Testing Requirements
The owner or operator shall determine compliance with the particulate matter standards in R30-06500001-2008 (SM01) Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

Recordkeeping Requirements
General recordkeeping requirements

(1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

ATTACHMENT E - Emission Unit Form

Reporting Requirements
General reporting requirements. (1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.

(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:

(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: 5 Micron Feed Bin, ELEV17 and BIN5	**Emission unit name:** 5 Micron Classification	**List any control devices associated with this emission unit:** CF #37
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Five micron baging system and associated equipment (Stacks #11, 37 and 38)		
Manufacturer: Micropul	**Model number:** CFH-8-20	**Serial number:** NA
Construction date: 1996	**Installation date:** 1996	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 10		
Maximum Hourly Throughput: **10**	**Maximum Annual Throughput:** 87,600 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	0.2	0.88
Particulate Matter (PM_{10})	0.2	0.88
Total Particulate Matter (TSP)	0.2	0.88
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
Emissions from Mikropul cartridge baghouse Model CFH-6-V-6"B" Emission point ID No. 37 (Stack # 37) and vented through Air Pollution Control Device ID No. 1C, shall not exceed 0.2 pounds of particulate matter per hour (lb./hr.). [45CSR13, R13-1917, A.1] [Stack # 37]

The maximum amount of processed material charged into the feed bin (air pollution source 6S){5 Micron feed Bin}, return bucket elevator (top) (air pollution source 7S)[ELEV 16]and return bucket elevator (bottom) (air pollution source 8S) {ELEV 17}shall not exceed 37.5 tons per hour (TPH). [45CSR13, R13-1917, A.2] [6S, 7S, 8S]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible Emissions evaluations will be conducted as specified in Facility-wide requirements 3.2.1, 3.2.2 and 3.2.3. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Testing Requirements
The owner or operator shall determine compliance with the particulate matter standards in Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

Recordkeeping Requirements
The owner or operator shall determine compliance with the particulate matter standards in Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

The permittee shall keep records of monitoring requirements of Section 5.2 as specified in Sections 3.4.1, 3.4.2. [45CSR§30-5.1c]

5.4.12. The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

5.4.13. Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

General recordkeeping requirements

(1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of

this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Reporting Requirements
General reporting requirements. (1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.

(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:

(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description			
Emission unit ID number: BIN4, MIN-U-SIL Bagger Bin and PACKR7	**Emission unit name:** 5 Micron Classification	**List any control devices associated with this emission unit:** CF #38	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Five micron bagger and associated equipment (Stacks #11, 37 and 38)			
Manufacturer: Micropul	**Model number:** CFH-18-20-VB	**Serial number:** NA	
Construction date: 1996	**Installation date:** 1996	**Modification date(s):** NA	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 15			
Maximum Hourly Throughput: **15**	**Maximum Annual Throughput:** 131,400 TPY	**Maximum Operating Schedule:** 8760 Hours/Year	
Fuel Usage Data **(fill out all applicable fields)**			
Does this emission unit combust fuel? No		**If yes, is it?**	
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	0.2	0.88
Particulate Matter (PM_{10})	0.2	0.88
Total Particulate Matter (TSP)	0.2	0.88
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
None specified

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
Emissions from Mikropul Cartridge baghouse, Model CFH-6-V-12"B", Emission Point ID No. 38 (Stack # 38), and vented through Air Pollution Control Device ID No. 2C, shall not exceed 0.2 pounds of particulate matter per hour (lb/hr). [45CSR13, R13-1917, A.3] [Stack # 38]

The maximum amount of processed material charged into the bulk storage bin (air pollution source 2S), product bin (air pollution source 1S) [Bin 5] , bulk loading spout (air pollution source 3S) [Bin 4], the bagger bin (air pollution source 4S) [Stone Container Bagger bin], and stone container model 988 DM single spout bagger (air pollution source 5S) [PACKR7] shall not exceed 35.5 tons per hour (TPH). [45CSR13, R13-1917, A.4] [1S to 5S]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible Emissions evaluations will be conducted as specified in Facility-wide requirements 3.2.1, 3.2.2 and 3.2.3. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Testing Requirements
The owner or operator shall determine compliance with the particulate matter standards in Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

Recordkeeping Requirements
The owner or operator shall determine compliance with the particulate matter standards in Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

The permittee shall keep records of monitoring requirements of Section 5.2 as specified in Sections 3.4.1, 3.4.2. [45CSR§30-5.1c]

5.4.12. The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

5.4.13. Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

General recordkeeping requirements

(1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Reporting Requirements
General reporting requirements. (1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.

(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:

(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description			
Emission unit ID number: ELEV14	**Emission unit name:** Milling Process	**List any control devices associated with this emission unit:** CF #39	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Milling Process (Stack #10, 11, 12 &39)			
Manufacturer: Micropul	**Model number:** CFH 8-20-V	**Serial number:** NA	
Construction date: 1981	**Installation date:** 1981	**Modification date(s):** NA	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 20			
Maximum Hourly Throughput: **20**	**Maximum Annual Throughput:** 175,200 TPY	**Maximum Operating Schedule:** 8760 Hours/Year	
Fuel Usage Data **(fill out all applicable fields)**			
Does this emission unit combust fuel? No		**If yes, is it?**	
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	--	--
Particulate Matter (PM_{10})	--	--
Total Particulate Matter (TSP)	40	--
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Allowable PM Stack Emissions (Type 'a' Source Operation)
[45CSR§7-4.1] [Stacks 1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40, Wsc#2

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
According to the CAM plan submitted, the differential pressure gauges for the filters shall be operated continuously during operation of the emission units. [40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stacks #1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

Testing Requirements
NA [R30-06500001-2008 (S0M1) sections 6.3.]

Recordkeeping Requirements
Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2008 (S0M1) sections 6.2.2 will be recorded. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter and the wet scrubber during operation on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

Qualified personnel shall perform visual inspections of the fabric filters and wet scrubber control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters and wet scrubber. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

General recordkeeping requirements. (1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.]

Reporting Requirements
Reporting will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.
(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:
(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: PACKR1	**Emission unit name:** Screening and Unground Sand Processing	**List any control devices associated with this emission unit:** CF #40
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Screening and Unground Sand Processing except SCREN 7-9, 14-15 (Stack #6, 7, 27 &40)		
Manufacturer: Donaldson	**Model number:** Torit DF-T2-8	**Serial number:** NA
Construction date: Pre-1975	**Installation date:** Pre-1975	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 200		
Maximum Hourly Throughput: **200**	**Maximum Annual Throughput:** 1,750,000 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	--	--
Particulate Matter (PM_{10})	--	--
Total Particulate Matter (TSP)	40	--
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Allowable PM Stack Emissions (Type 'a' Source Operation)
[45CSR§7-4.1] [Stacks 1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40, Wsc#2

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
According to the CAM plan submitted, the differential pressure gauges for the filters shall be operated continuously during operation of the emission units. [40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stacks #1, 6, 7, 10, 11, 12, 13, 20, 27, 39, 40]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

Testing Requirements
NA [R30-06500001-2008 (S0M1) sections 6.3.]

Recordkeeping Requirements
Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2008 (S0M1) sections 6.2.2 will be recorded. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter and the wet scrubber during operation on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

Qualified personnel shall perform visual inspections of the fabric filters and wet scrubber control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters and wet scrubber. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.]

General recordkeeping requirements. (1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.]

Reporting Requirements
Reporting will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.
(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:
(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description			
Emission unit ID number: ELEV22, ELEV24, Screen 21 and AIRSD1	**Emission unit name:** Milling Process	**List any control devices associated with this emission unit:** CF #41	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Course Ground Special Circuit			
Manufacturer: Donaldson	**Model number:** Torit DFT2-4-155	**Serial number:** NA	
Construction date: 1981	**Installation date:** 1981	**Modification date(s):** NA	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): See Applicable Requirements			
Maximum Hourly Throughput: **See Applicable Requirements**	**Maximum Annual Throughput:** See Applicable Requirements	**Maximum Operating Schedule:** 8760 Hours/year	
Fuel Usage Data **(fill out all applicable fields)**			
Does this emission unit combust fuel? No		**If yes, is it?**	
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	See Applicable Requirements	
Particulate Matter (PM_{10})	See Applicable Requirements	
Total Particulate Matter (TSP)	See Applicable Requirements	
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
The maximum quantity of material to be processed by the Microsizer #3 and Handling Equipment shall be limited to the following:
Microsizer #3 (Stack #41): 25 TPH
Airslide 100 (Stack #41): 8 TPH
Airslide 200 (Stack #41): 8 TPH
Surge Hopper (Stack #41): 8 TPH
Tech Air Pumping Station (Stacks #28 & 29): 8 TPH
[45CSR13, R13-2595 (Condition A.1.)] [Stack # 28, 29 & 41]

Maximum particulate matter emissions to the atmosphere shall not exceed the following:
Microsizer #3: 1.20 PPH and 5.26 TPY
Airslide 100: 0.15 PPH and 0.66 TPY
Airslide 200: 0.15 PPH and 0.66 TPY
Surge Hopper: 0.10 PPH and 0.43 TPY
Tech Air Pumping Station: 0.40 PPH and 1.75 TPY
[45CSR13, R13-2595 (Condition A.2.)] [Stack # 28, 29 & 41]

The following fugitive dust control measures as specified in Permit Application R13-2595 shall be installed, maintained, and operated at all times when the facility is in operation in order to minimize fugitive particulate matter emissions:
Microsizer #3, Airslide 100, Airslide 200, Surge Hopper: orit DFT2-4-155 Baghouse (2C) at 99.9%
Tech Air Pumping Station Tank 5: Mikropul 8204B at 99.9%
Tech Air Pumping Station (Tanks 6 and 7) (3C): Torit DF2DF4 at 99.9%
[45CSR13, R13-2595 (Condition A.3.)] [Baghouses 2C & 3C; Stack # 28, 29 & 41]

The stabilized static pressure loss across baghouse 1C and 2C shall remain between 0.5 to 6.0 inches of water.
[45CSR13, R13-2595 (Condition A.4.)] [Baghouses 1C & 2C; Stack # 9 & 41]

Except during startup and shutdown, opacity from baghouses 2C and 3C shall not exceed 10 percent based on a six minute block average. In order to determine compliance with this limit the permittee shall conduct monthly visual emission observations in accordance with Method 22 of 40 CFR 60, Appendix A for stacks #41, #28 and #29. These observations shall be conducted during periods of normal facility operation for a sufficient time interval to determine if the unit has visible emissions using procedures outlined in 40CFR60 Appendix A, Method 22. If sources of visible emissions are identified during the survey, the permittee shall conduct an opacity evaluation in accordance with 40CFR60 Appendix A, Method 9, within 24 hours. A 40CFR60 Appendix A, Method 9 evaluation shall not be required if the visible emission condition is corrected within 24 hours and the units are operated at normal operating conditions with no visible emissions being observed. Records shall be maintained on site reporting the results of each test. Upon observing any visible emissions in excess of twenty percent (20%) opacity, or excess of forty (40%) for any period or periods aggregating more than five (5) minutes in any sixty (60) minute period, the Company shall submit a written report, certified by a responsible official, to the Director of the Division of Air Quality within five (5) days after taking said reading. [45CSR13, R13-2595 (Condition A.4.)] [Stack # 28, 29 & 41]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
For the purpose of determining compliance with the process rate limitations set forth in R30-06500001-2008 (SM01) 5.1.10.1., the permittee shall maintain monthly and annual records on the processing rate of sand to #3 Micorsizer, Airslide 100, Airslide 200, Surge Hopper, and Tech Air Pumping Station. Certified copies of said records shall be made available to the Director or his/her duly authorized representative upon request. The monthly and annual sand processing records may be maintained using the U.S. Silica Company computerized Production Tracking Data System (PTDS). [45CSR13, R13-2595, B.6.] [#3 Micorsizer, Airslide 100, Airslide 200, Surge Hopper, and Tech Air Pumping Station]

The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Testing Requirements
The owner or operator shall determine compliance with the particulate matter standards in R30-06500001-2008 (SM01) Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

Recordkeeping Requirements
Maintenance records for the air pollution control devices listed in 5.1.10.3. shall be maintained on site for a period of five (5) years. Malfunctions shall be documented in writing and records of these malfunctions maintained at the facility for a period of five (5) years. Certified copies of said records shall be made available to the Director or his/her duly authorized representative upon request. At a minimum, the following information shall be documented for each malfunction:

a. The equipment involved in the malfunction and the associated cause.
b. Steps taken to correct the malfunction.
c. The steps taken to minimize the emissions during the malfunction.
d. The duration of the malfunction.
e. The increase in emissions during the malfunction.
f. Steps taken to prevent a similar malfunction in the future.

[45CSR13, R13-2595, B.8.] [Baghouses 2C & 3C; Stack # 28, 29 & 41]

General recordkeeping requirements

(1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Reporting Requirements
General reporting requirements. (1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.

(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R.

§70.6(a)(3)(iii) of this chapter and the following information, as applicable:

(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: SCREN17, SCREN18 (1s and 2s), PACKR8 (1E), ELEV19, ELEV20, ISTANK18, Steel Storage Tank and SPOUT4	**Emission unit name:** ISTANMK18	**List any control devices associated with this emission unit:** CF #9
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Bulk bagging operation at the Wet Float Plant		
Manufacturer: Donaldson	**Model number:** Torit 4DFT 32-155	**Serial number:** NA
Construction date: Pre-1970	**Installation date:** Pre-1970	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 30		
Maximum Hourly Throughput: **30 TPH**	**Maximum Annual Throughput:** 262,800 TPY	**Maximum Operating Schedule:** 8760 Hours/year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		
Describe each fuel expected to be used during the term of the permit.		

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	1.37	6.0
Particulate Matter (PM_{10})	1.37	6.0
Total Particulate Matter (TSP)	1.37	6.0
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Hourly emission rate based on a PM emission rate of 0.022 grains/dscf (0.05grams/dscm) and a maximum dust collector gas flow rate of 7,239 dcfm.

Annual emission rate based on 8,760 hours of operation per year. [45CSR13, R13-2299, A.4] [Stack # 9]

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
The maximum hourly and annual processing rates of sand through the bulk sand bagger shall not exceed 30 TPH and 262,800 TPY, based on 8,760 hours of operation per year. [45CSR13, R13-2299, A.1] [PACKR8]

The permittee shall operate the air pollution control device, the Torit Model Number 4DF32-155 Pulse Type Cartridge Dust Collector (Equipment ID No. 1C; Emission Point ID No. 1E - Stack #9), as outlined in Permit Application R13-2299. [45CSR13, R13-2299, A.2] [Stack # 9]

In accordance with the requirements of 40 CFR 60, Subpart OOO, the maximum particulate (PM) emissions from the air pollution control device, the Torit Model Number 4DF32-155 Pulse Type Cartridge Dust Collector (Emission Point ID No. 1E - Stack #9), shall not exceed 0.022 grains per dry standard cubic foot (0.05 grams/dry standard meter). [45CSR13, R13-2299, A.3; 40 C.F.R. § 60.672; 45CSR16] [Stack # 9]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Testing Requirements
The owner or operator shall determine compliance with the particulate matter standards in R30-06500001-2008 (SM01) Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

Recordkeeping Requirements
For the Torit Model No. 4DF32-155 Pulse Type Cartridge Dust Collector (Equipment ID No. 1C-CF#9):

a. Maintenance records shall be maintained on site for a period of five (5) years. Certified copies of these records shall be made available to the Director or his duly authorized representative upon request.

b. Malfunctions shall be documented in writing and records of these malfunctions maintained at the facility for a period of 5 years. Certified copies of these records shall be made available to the Director or his duly authorized representative upon request. At minimum, the following information shall be documented for each malfunction:

The cause of malfunction.
Steps taken to:
- correct the malfunction.

- minimize emissions during malfunction.
- The duration of the malfunction in hours.
- The estimated increase in emissions during the malfunction.
- Any changes/modifications made to equipment and/or procedures that will help prevent future recurrence of the malfunction.
[45CSR13, R13-2423, B.5] [CF#9]

For the purpose of determining compliance with the process rate limitation set forth in R30-06500001-2008 (SM01) Section 5.1.9.1, the permittee shall maintain monthly and annual records on the processing rate of sand to the bulk sand bagger (located at the Float Plant). Certified copies of said records shall be made available to the Director or his/her duly authorized representative upon request. The monthly and annual sand processing records may be maintained using the U.S. Silica Company computerized Production Tracking Data System (PTDS). [45CSR13, R13-2299, B.4] [PACKR8]

Maintenance records for the Torit Model Number 4DF32-155 Pulse Type Cartridge Dust Collector (Equipment ID No.: 1C-CF#9; Emission Point ID No.: 1E-Stack#9), must be maintained. Records shall be maintained on site for a period of five (5) years. Certified copies of said records shall be made available to the Director or his/her duly authorized representative upon request. [45CSR13, R13-2299, B.5] [Stack#9]

General recordkeeping requirements

(1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Reporting Requirements
General reporting requirements. (1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.

(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:

(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: MIN-U-SIL Storage Silos #6 (6e), and Tech Air Pumping Station	**Emission unit name:** Storage Structures	**List any control devices associated with this emission unit:** CF #28
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Silica Sand Storage Silos		
Manufacturer: Donaldson	**Model number:** Torit DF-2D-F4	**Serial number:** NA
Construction date: 1984	**Installation date:** 1984	**Modification date(s):** 1999
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 100		
Maximum Hourly Throughput: **100 TPH**	**Maximum Annual Throughput:** 876000 TPY	**Maximum Operating Schedule:** 8760 Hours/Year
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel? No		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	0.5	2.2
Particulate Matter (PM_{10})	0.5	2.2
Total Particulate Matter (TSP)	0.5	2.2
Sulfur Dioxide (SO_2)	--	--
Volatile Organic Compounds (VOC)	--	--
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None	--	--
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
Hourly PM emission rate is based on 0.022 grains/dscf (0.05grams/dscm) and a maximum dust collector gas flow rate of 3,715 dcfm.

Annual PM emission rate based on 8,760 hours of operation per year. [45CSR13, R13-1970, A.1] [Stack # 28]

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
The permittee shall not discharge into the atmosphere from any transfer point on belt conveyors or from any other affected facility any stack emissions which:

(1) Contain particulate matter in excess of 0.05 g/dscm (0.022 gr/dscf); and
(2) Exhibit greater than 7 percent opacity, unless the stack emissions are discharged from an affected facility using a wet scrubbing control device. Facilities using a wet scrubber must comply with the reporting provisions of 40 C.F.R. § 60.676 ©, (d), and (e).

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
Visible Emissions evaluations will be conducted as specified in Facility-wide requirements 3.2.1, 3.2.2 and 3.2.3. [45CSR§30-5.1c]

The permittee shall monitor and maintain records of daily observations of pressure drop across baghouses 2C and 3C. [45CSR13, R13-2595, B.9.] [Baghouses 2C & 3C; Stack # 28, 29 & 41]

The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Testing Requirements
The owner or operator shall determine compliance with the particulate matter standards in Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

Recordkeeping Requirements
The owner or operator shall determine compliance with the particulate matter standards in Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

The permittee shall keep records of monitoring requirements of Section 5.2 as specified in Sections 3.4.1, 3.4.2. [45CSR§30-5.1c]

The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

General recordkeeping requirements

(1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Reporting Requirements
General reporting requirements. (1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.

(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. §70.6(a)(3)(iii) of this chapter and the following information, as applicable:

(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: Microsizer #3 and PNEU1	**Emission unit name:** Milling Process	**List any control devices associated with this emission unit:** CF #42
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Microsizer #3 (MS-20) and Handling Equipment		
Manufacturer: Donaldson	**Model number:** DFT3-6	**Serial number:**
Construction date: 2005	**Installation date:** 2005	**Modification date(s):** NA
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): See Applicable Requirements		
Maximum Hourly Throughput: **See Applicable Requirements**	**Maximum Annual Throughput:** See Applicable Requirements	**Maximum Operating Schedule:**
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel?		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	--	--
Nitrogen Oxides (NO_X)	--	--
Lead (Pb)	--	--
Particulate Matter ($PM_{2.5}$)	See Applicable Requirements	
Particulate Matter (PM_{10})	See Applicable Requirements	
Total Particulate Matter (TSP)	See Applicable Requirements	
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
The maximum quantity of material to be processed by the Microsizer #3 and Handling Equipment shall be limited to the following:
Microsizer #3 (Stack #41): 25 TPH
Airslide 100 (Stack #41): 8 TPH
Airslide 200 (Stack #41): 8 TPH
Surge Hopper (Stack #41): 8 TPH
Tech Air Pumping Station (Stacks #28 & 29): 8 TPH
[45CSR13, R13-2595 (Condition A.1.)] [Stack # 28, 29 & 41]

Maximum particulate matter emissions to the atmosphere shall not exceed the following:
Microsizer #3: 1.20 PPH and 5.26 TPY
Airslide 100: 0.15 PPH and 0.66 TPY
Airslide 200: 0.15 PPH and 0.66 TPY
Surge Hopper: 0.10 PPH and 0.43 TPY
Tech Air Pumping Station: 0.40 PPH and 1.75 TPY
[45CSR13, R13-2595 (Condition A.2.)] [Stack # 28, 29 & 41]

The following fugitive dust control measures as specified in Permit Application R13-2595 shall be installed, maintained, and operated at all times when the facility is in operation in order to minimize fugitive particulate matter emissions:
Microsizer #3, Airslide 100, Airslide 200, Surge Hopper: orit DFT2-4-155 Baghouse (2C) at 99.9%
Tech Air Pumping Station Tank 5: Mikropul 8204B at 99.9%
Tech Air Pumping Station (Tanks 6 and 7) (3C): Torit DF2DF4 at 99.9%
[45CSR13, R13-2595 (Condition A.3.)] [Baghouses 2C & 3C; Stack # 28, 29 & 41]

The stabilized static pressure loss across baghouse 1C and 2C shall remain between 0.5 to 6.0 inches of water.
[45CSR13, R13-2595 (Condition A.4.)] [Baghouses 1C & 2C; Stack # 9 & 41]

Except during startup and shutdown, opacity from baghouses 2C and 3C shall not exceed 10 percent based on a six minute block average. In order to determine compliance with this limit the permittee shall conduct monthly visual emission observations in accordance with Method 22 of 40 CFR 60, Appendix A for stacks #41, #28 and #29. These observations shall be conducted during periods of normal facility operation for a sufficient time interval to determine if the unit has visible emissions using procedures outlined in 40CFR60 Appendix A, Method 22. If sources of visible emissions are identified during the survey, the permittee shall conduct an opacity evaluation in accordance with 40CFR60 Appendix A, Method 9, within 24 hours. A 40CFR60 Appendix A, Method 9 evaluation shall not be required if the visible emission condition is corrected within 24 hours and the units are operated at normal operating conditions with no visible emissions being observed. Records shall be maintained on site reporting the results of each test. Upon observing any visible emissions in excess of twenty percent (20%) opacity, or excess of forty (40%) for any period or periods aggregating more than five (5) minutes in any sixty (60) minute period, the Company shall submit a written report, certified by a responsible official, to the Director of the Division of Air Quality within five (5) days after taking said reading. [45CSR13, R13-2595 (Condition A.4.)] [Stack # 28, 29 & 41]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
For the purpose of determining compliance with the process rate limitations set forth in R30-06500001-2008 (SM01) 5.1.10.1., the permittee shall maintain monthly and annual records on the processing rate of sand to #3 Micorsizer, Airslide 100, Airslide 200, Surge Hopper, and Tech Air Pumping Station. Certified copies of said records shall be made available to the Director or his/her duly authorized representative upon request. The monthly and annual sand processing records may be maintained using the U.S. Silica Company computerized Production Tracking Data System (PTDS). [45CSR13, R13-2595, B.6.] [#3 Micorsizer, Airslide 100, Airslide 200, Surge Hopper, and Tech Air Pumping Station]

The permittee shall monitor and record the differential pressure drop across each fabric filter (during operation) on a daily basis. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Qualified personnel shall perform visual inspections of the fabric filters control devices at least monthly and perform routine maintenance to assure proper operation of the fabric filters. The results of inspection and performance of routine maintenance shall be recorded. [40 C.F.R. §64.3(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Testing Requirements
The owner or operator shall determine compliance with the particulate matter standards in R30-06500001-2008 (SM01) Section 5.1.1(a) according to Test method and Procedures in 40 C.F.R. §60.675. [40 C.F.R. §60.675; 45CSR16]

Recordkeeping Requirements
Maintenance records for the air pollution control devices listed in 5.1.10.3. shall be maintained on site for a period of five (5) years. Malfunctions shall be documented in writing and records of these malfunctions maintained at the facility for a period of five (5) years. Certified copies of said records shall be made available to the Director or his/her duly authorized representative upon request. At a minimum, the following information shall be documented for each malfunction:

a. The equipment involved in the malfunction and the associated cause.
b. Steps taken to correct the malfunction.
c. The steps taken to minimize the emissions during the malfunction.
d. The duration of the malfunction.
e. The increase in emissions during the malfunction.
f. Steps taken to prevent a similar malfunction in the future.

[45CSR13, R13-2595, B.8.] [Baghouses 2C & 3C; Stack # 28, 29 & 41]

General recordkeeping requirements

(1) The owner or operator shall comply with the recordkeeping requirements specified in 40 C.F.R. §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40CFR64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

(2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 C.F.R. §64.9(b); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Reporting Requirements
General reporting requirements. (1) On and after the date specified in 40 C.F.R. §64.7(a) by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with 40 C.F.R. §70.6(a)(3)(iii) of this chapter.

(2) A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R.

§70.6(a)(3)(iii) of this chapter and the following information, as applicable:

(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
[40 C.F.R. §64.9(a); 45CSR§30-5.1.c.] [CF # 9, 25, 28, 29, 33, 34, 36, 37, 38 & 41]

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description		
Emission unit ID number: VIBFD1, CONV1, CONV8, CONV21, CONV23, CONV24 and VIBFD4	**Emission unit name:** Miscellaneous	**List any control devices associated with this emission unit:** N/A
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Miscellaneous Material Handling Equipment		
Manufacturer: N/A	**Model number:** N/A	**Serial number:**
Construction date: Pre-1970	**Installation date:**	**Modification date(s):**
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): Various rates (200 to 1000 tph)		
Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
Fuel Usage Data **(fill out all applicable fields)**		
Does this emission unit combust fuel?		**If yes, is it?**
Maximum design heat input and/or maximum horsepower rating:		**Type and Btu/hr rating of burners:**
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.		

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ATTACHMENT E - Emission Unit Form

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:
None specified.

ATTACHMENT E - Emission Unit Form

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

Applicable Requirements
7.1.1. Each emission unit with a visible emissions limit contained in Section 3.1.9 shall be observed visually at least each calendar week during periods of normal facility operation for a sufficient time interval to determine if the unit has any visible emissions using 40 C.F.R. 60 Appendix A, Method 22. If visible emissions from any of the emission unit are observed during these weekly observations, or at any other time, that appear to exceed the allowable visible emission requirement for the emission unit, visible emissions evaluations in accordance with 45CSR7A shall be conducted as soon as practicable, but no later than two weeks from the time of the observation. A 45CSR7A evaluation shall not be required under condition Section 7.1.2 if the visible emissions condition is corrected in a timely manner; the emission unit is operating at normal operating conditions; and, the cause and corrective measures taken are recorded. [45CSR§30-5.1c]

_X_ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Monitoring Requirements
N/A

Testing Requirements
N/A

Recordkeeping Requirements
N/A

Reporting Requirements
N/A

Are you in compliance with all applicable requirements for this emission unit?

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

Attachment F

Schedule Of Compliance Forms

Not Applicable

Attachment G

Air Pollution Control Device Forms

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #1	CRUSH2, CONV3, CONV2	
Manufacturer:	**Model number:**	**Installation date:**
Donaldson	Torit DF-T4-32	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 1.4-3.0

Is this device subject to the CAM requirements of 40 C.F.R. 64? No

If Yes, **Complete ATTACHMENT H**

If No**, Provide justification**

Uncontrolled emission factors in AP-42 Chapter 11.19.2, Table 11.19.2-2 "Crushed Stone Processing Operations (8/04)"

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
WSc #2	CRUSH3	
Manufacturer:	**Model number:**	**Installation date:**
Sly	Impinjet 270	Unknown

Type of Air Pollution Control Device:

Baghouse/Fabric Filter		Venturi Scrubber		Single Cyclone	
Carbon Bed Adsorber		Packed Tower Scrubber		Cyclone Bank	
Carbon Drum(s)	X	Other Wet Scrubber		Settling Chamber	
Catalytic Incinerator		Condenser		Dry Plate Electrostatic Precipitator	
Thermal Incinerator		Flare		Other (describe	
Wet Plate Electrostatic Precipitator		Multiclone			

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	> 98%
PM10	99.99%	> 98%
PM2.5	99.99%	> 98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 1.5-7.0

Is this device subject to the CAM requirements of 40 C.F.R. 64? No

If Yes, **Complete ATTACHMENT H**

If No**, Provide justification**

Uncontrolled emission factors in AP-42 Chapter 11.19.2, Table 11.19.2-2 "Crushed Stone Processing Operations (8/04)"

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
WSc #3	DRYER1 (3s)	
Manufacturer:	**Model number:**	**Installation date:**
Sly	Impinjet 1130	Unknown

Type of Air Pollution Control Device:

Baghouse/Fabric Filter		Venturi Scrubber	Single Cyclone
Carbon Bed Adsorber		Packed Tower Scrubber	Cyclone Bank
Carbon Drum(s)	X	Other Wet Scrubber	Settling Chamber
Catalytic Incinerator		Condenser	Dry Plate Electrostatic Precipitator
Thermal Incinerator		Flare	Other (describe
Wet Plate Electrostatic Precipitator		Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	> 98%
PM10	99.99%	> 98%
PM2.5	99.99%	> 98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 2.0-5.8

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #6	VIBFD5, ELEV4, CONV39-41, CONV29, CONV30, BE01 (E2) and BE02 (E2)	
Manufacturer:	**Model number:**	**Installation date:**
Donaldson	Torit DFA-155	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 2.0-5.0

Is this device subject to the CAM requirements of 40 C.F.R. 64? No

If Yes, **Complete ATTACHMENT H**

If No**, Provide justification**

Uncontrolled emission factors in AP-42 Chapter 11.19.2, Table 11.19.2-2 "Crushed Stone Processing Operations (8/04)"

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #7	ELEV1, ELEV2, ELEV3, SCREN10-13 & SCREN22-23 & SCREN4, CONV31, CONV33, TANKS #7, #8, #13 and #14	
Manufacturer:	**Model number:**	**Installation date:**
Donaldson	Torit DFT-32-SH	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 3.0-5.5

Is this device subject to the CAM requirements of 40 C.F.R. 64? No

If Yes, **Complete ATTACHMENT H**

If No**, Provide justification**

Uncontrolled emission factors in AP-42 Chapter 11.19.2, Table 11.19.2-2 "Crushed Stone Processing Operations (8/04)"

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
WSc #8	DRYER2 (8s)	
Manufacturer:	**Model number:**	**Installation date:**
In House	NA	Unknown

Type of Air Pollution Control Device:

Baghouse/Fabric Filter		Venturi Scrubber	Single Cyclone
Carbon Bed Adsorber		Packed Tower Scrubber	Cyclone Bank
Carbon Drum(s)	X	Other Wet Scrubber	Settling Chamber
Catalytic Incinerator		Condenser	Dry Plate Electrostatic Precipitator
Thermal Incinerator		Flare	Other (describe
Wet Plate Electrostatic Precipitator		Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	> 90%
PM10	99.99%	> 90%
PM2.5	99.99%	> 90%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 0.5-2.0

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #9	SCREN17, SCREN18 (1s and 2s), PACKR8 (1E), ELEV19, ELEV20, ISTANK18, Steel Storage Tank and SPOUT4	
Manufacturer:	**Model number:**	**Installation date:**
Donaldson	Torit 4DFT-32-155	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 1.5-4.0

Is this device subject to the CAM requirements of 40 C.F.R. 64? No

If Yes, **Complete ATTACHMENT H**

If No**, Provide justification**

Uncontrolled emission factors in AP-42 Chapter 11.19.2, Table 11.19.2-2 "Crushed Stone Processing Operations (8/04)"

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #10	#1 Mill Feed Bin, #2 Mill Feed Bin, AIRSD7, ELEV6, ELEV7, FEEDB1, FEEDB2, MILL2, MILL3, SCREW3, SCREW5 and SCREW6	
Manufacturer:	**Model number:**	**Installation date:**
Mikropul	CFH 40T-20-B	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 2.0-3.5

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #11	SCREW4, #3 AND #4 MILL FEED BINS, FEEDB3, FEEDB4, SCREW7, AIRSD8, ELEV8, ELEV9, PNEU4, #1 Microsizer Feed Bins, AIRSL12 and ELEV16 (7S)	
Manufacturer:	**Model number:**	**Installation date:**
Mikropul	CFH 40T-20-B	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 2.0-3.5

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #11	#3 AND #4 MILL FEED BINS, FEEDB3, FEEDB4, MILL4, MILL5, SCREW7, AIRSD8, ELEV8, ELEV9 and PNEU4	
Manufacturer:	**Model number:**	**Installation date:**
Donaldson	Torit DFT 4-48	3-15-2012

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 0.5-6.0

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan for this dust collector is submitted with this renewal application.

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #12	#5 MILL FEED BIN, FEEDB5, MILL6, ELEV10, #6 MILL FEED BIN, FEEDB6, AIRSD3, ELEV11, PNEU2, BIN2, BIN7, #1 AND #2 PUMPS, #2 MICROSIZER FEED BINS, AIRSL12, AIRSL13 and	
Manufacturer:	**Model number:**	**Installation date:**
Mikropul	CFH 40T-20-B	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 2.0-3.5

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #13	ELEV23, CGSTank, PEMCO Tank and SPOUT6	
Manufacturer:	**Model number:**	**Installation date:**
Donaldson	Torit DF-T3-24	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 1.8-4.5

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #20	PACKR3 and PACKR4	
Manufacturer:	**Model number:**	**Installation date:**
Donaldson	Torit DF-T4-16	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 1.6-5.0

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #25	SCREN16, CONV25, CONV26 and CONV27	
Manufacturer:	**Model number:**	**Installation date:**
Donaldson	Torit DF-4DF-48	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 1.0-3.6

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #27	CONV51, PULVERIZER TANK #19, PULVERIZER TANK #20, #2 FEED SILO, TANKS #9-#12 VENTS AND LOADOUTS, STEEL TANK #21 VENT AND LOADOUT SPOUTS 1 TO 3	
Manufacturer:	**Model number:**	**Installation date:**
Donaldson	Torit DF-T2-8	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 2.0-4.5

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #28	MIN-U-SIL storage silos #6-#8, SPOUT5 and Tech Air Pumping Station	
Manufacturer:	**Model number:**	**Installation date:**
Donaldson	Torit DF-2D-F4	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 0.6-6.0

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #29	MIN-U-SIL storage silo #5 (5e), and Tech Air Pumping Station	
Manufacturer:	**Model number:**	**Installation date:**
Micropul	CFH-18-20-VB	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 0.5-1.0

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #33	SIL-CO-SIL storage silos #1 - #4 (1e-4e)	
Manufacturer:	**Model number:**	**Installation date:**
Donaldson	Torit DF-T4-16	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 1.4-5.0

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #34	PACKR5 (1e & 2e)	
Manufacturer:	**Model number:**	**Installation date:**
Donaldson	Torit DF-2DF-4	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 0.5-5.0

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #36	SCREN7-9 & SCREN14-15 (1E)	
Manufacturer:	**Model number:**	**Installation date:**
Donaldson	Torit DF-T2-8	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 0.5-2.5

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #37	5 Micron Feed Bin, ELEV17, and BIN5	
Manufacturer:	**Model number:**	**Installation date:**
Micropul	CFH-8-20	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 1.5-5.0

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #38	BIN4, MIN-U-SIL Bagger Bin and PACKR7	
Manufacturer:	**Model number:**	**Installation date:**
Micropul	CFH-18-20-VB	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 2.0-4.5

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #39	ELEV14	
Manufacturer:	**Model number:**	**Installation date:**
Micropul	CFH 8-20-V	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 1.0-3.0

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #40	PACKR1	
Manufacturer:	**Model number:**	**Installation date:**
Donaldson	Torit DF-T2-8	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 0.75-2.2

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #41	ELEV22, ELEV24, Screen 21 and AIRSD1	
Manufacturer:	**Model number:**	**Installation date:**
Donaldson	DFT2-4-155	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 0.5-6.0

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2008 renewal application. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number:	**List all emission units associated with this control device.**	
CF #42	Microsizer #3 and PNEU1	
Manufacturer:	**Model number:**	**Installation date:**
Donaldson	DFT3-6	Unknown

Type of Air Pollution Control Device:

X	Baghouse/Fabric Filter	Venturi Scrubber	Single Cyclone
	Carbon Bed Adsorber	Packed Tower Scrubber	Cyclone Bank
	Carbon Drum(s)	Other Wet Scrubber	Settling Chamber
	Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
	Thermal Incinerator	Flare	Other (describe
	Wet Plate Electrostatic Precipitator	Multiclone	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
TSP	99.99%	99.9%
PM10	99.99%	99.9%
PM2.5	99.99%	99.9%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Indicator Range for Pressure Drop (in H2O): 0.5-6.0

Is this device subject to the CAM requirements of 40 C.F.R. 64? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan revisions were submitted on December 2, 2010 with dust collector exemption notification. The WVDEP approved and incoporated the applicable requirement into the Title V permit (R30-06500001-2008).

If No**, Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

The differential pressure gauges for the filters shall be operated continuously during operation of the emission units.

Attachment H

Compliance Assurance Monitoring (CAM) Forms

Not Applicable

ATTACHMENT H - Compliance Assurance Monitoring (CAM) Plan Form

For definitions and information about the CAM rule, please refer to 40 CFR Part 64. Additional information (including guidance documents) may also be found at http://www.epa.gov/ttn/emc/cam.html

CAM APPLICABILITY DETERMINATION

1) Does the facility have a PSEU (Pollutant-Specific Emissions Unit considered separately with respect to **EACH** regulated air pollutant) that is subject to CAM (40 CFR Part 64), which must be addressed in this CAM plan submittal? To determine applicability, a PSEU must meet **all** of the following criteria (*If No, then the remainder of this form need not be completed*): ☒ YES ☐ NO

a. The PSEU is located at a major source that is required to obtain a Title V permit;

b. The PSEU is subject to an emission limitation or standard for the applicable regulated air pollutant that is NOT exempt;

LIST OF EXEMPT EMISSION LIMITATIONS OR STANDARDS:

- NSPS (40 CFR Part 60) or NESHAP (40 CFR Parts 61 and 63) proposed after 11/15/1990.
- Stratospheric Ozone Protection Requirements.
- Acid Rain Program Requirements.
- Emission Limitations or Standards for which a WVDEP Division of Air Quality Title V permit specifies a continuous compliance determination method, as defined in 40 CFR §64.1.
- An emission cap that meets the requirements specified in 40 CFR §70.4(b)(12).

c. The PSEU uses an add-on control device (as defined in 40 CFR §64.1) to achieve compliance with an emission limitation or standard;

d. The PSEU has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than the Title V Major Source Threshold Levels; AND

e. The PSEU is NOT an exempt backup utility power emissions unit that is municipally-owned.

BASIS OF CAM SUBMITTAL

2) Mark the appropriate box below as to why this CAM plan is being submitted as part of an application for a Title V permit:

☐ RENEWAL APPLICATION. **ALL** PSEUs for which a CAM plan has NOT yet been approved need to be addressed in this CAM plan submittal.

☒ INITIAL APPLICATION (submitted after 4/20/98). **ONLY** large PSEUs (i. e., PSEUs with potential post-control device emissions of an applicable regulated air pollutant that are equal to or greater than Major Source Threshold Levels) need to be addressed in this CAM plan submittal.

☐ SIGNIFICANT MODIFICATION TO LARGE PSEUs. **ONLY** large PSEUs being modified after 4/20/98 need to be addressed in this cam plan submittal. For large PSEUs with an approved CAM plan, Only address the appropriate monitoring requirements affected by the significant modification.

3) [a] BACKGROUND DATA AND INFORMATION					
Complete the following table for **all** PSEUs that need to be addressed in this CAM plan submittal. This section is to be used to provide background data and information for each PSEU In order to supplement the submittal requirements specified in 40 CFR §64.4. If additional space is needed, attach and label accordingly.					
PSEU DESIGNATION	DESCRIPTION	POLLUTANT	CONTROL DEVICE	[b] EMISSION LIMITATION or STANDARD	[c] MONITORING REQUIREMENT
CF #11	Mill Processing control device	Particulate matter, PM-10	Dry filter dust collector	Allowable PM Stack Emissions: 37 lb/hr [45CSR§7-4.1] [Stack 11]	Differential pressure gauges for the filters shall be operated continuously during operation of the emission units. [40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] Visible emissions evaluations will be conducted as specified in facility-wide requirements R30-06500001-2008 (S0M1) sections 3.2.1., 3.2.2., and 3.2.3. [45CSR§30-5.1c]
EXAMPLE Boiler No. 1	Wood-Fired Boiler	PM	Multiclone	45CSR§2-4.1.c.; 9.0 lb/hr	Monitor pressure drop across multiclone: Weekly inspection of multiclone

[a] If a control device is common to more than one PSEU, one monitoring plan may be submitted for the control device with the affected PSEUs identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a). If a single PSEU is controlled by more than one control device similar in design and operation, one monitoring plan for the applicable control devices may be submitted with the applicable control devices identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a).

[b] Indicate the emission limitation or standard for any applicable requirement that constitutes an emission limitation, emission standard, or standard of performance (as defined in 40 CFR §64.1).

[c] Indicate the monitoring requirements for the PSEU that are required by an applicable regulation or permit condition.

CAM MONITORING APPROACH CRITERIA			
Complete this section for **EACH** PSEU that needs to be addressed in this CAM plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide monitoring data and information for EACH indicator selected for EACH PSEU in order to meet the monitoring design criteria specified in 40 CFR §64.3 and §64.4. if more than two indicators are being selected for a PSEU or if additional space is needed, attach and label accordingly with the appropriate PSEU designation, pollutant, and indicator numbers.			
4a) PSEU Designation: CF #11	**4b) Pollutant: PM-10**	**4c) [a] Indicator No. 1:** Differential pressure	**4d) [a] Indicator No. 2:** Visible emissions
5a) GENERAL CRITERIA Describe the MONITORING APPROACH used to measure the indicators:		Differential pressure	Visible emissions using 40 CFR Part 60, Appendix A, Method 22
[b] Establish the appropriate INDICATOR RANGE or the procedures for establishing the indicator range which provides a reasonable assurance of compliance:		0.5 to 6.0 (in wc)	No visible emissions for more than six minutes.
5b) PERFORMANCE CRITERIA Provide the SPECIFICATIONS FOR OBTAINING REPRESENTATIVE DATA, such as detector location, installation specifications, and minimum acceptable accuracy:		Equipment: Differential pressure Gauge. Monitoring location: Across inlet and outlet ducts.	In accordance with the monitoring requirements identified under Method 22.
[c] For new or modified monitoring equipment, provide VERIFICATION PROCEDURES, including manufacturer's recommendations, TO CONFIRM THE OPERATIONAL STATUS of the monitoring:		NA	NA
Provide QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PRACTICES that are adequate to ensure the continuing validity of the data, (i.e., daily calibrations, visual inspections, routine maintenance, RATA, etc.):		Calibrate, maintain, and operate instruments using procedures that take into account manufacturer's recommendations.	Calibrate, maintain, and operate instruments using procedures that take into account manufacturer's recommendations.
[d] Provide the MONITORING FREQUENCY:		Once per day	At least each calendar week during periods of normal facility operation
Provide the DATA COLLECTION PROCEDURES that will be used:		Operators log data manually	Observers complete opacity or VE observation forms and log into binder.
Provide the DATA AVERAGING PERIOD for the purpose of determining whether an excursion or exceedance has occurred:		Once per day	The duration of each EPA Method 22 test must be at least 15 minutes, and visible emissions will be considered to be present if they are detected for more than six minutes of the fifteen minute period.

[a] Describe all indicators to be monitored which satisfies 40 CFR §64.3(a). Indicators of emission control performance for the control device and associated capture system may include measured or predicted emissions (including visible emissions or opacity), process and control device operating parameters that affect control device (and capture system) efficiency or emission rates, or recorded findings of inspection and maintenance activities.

[b] Indicator Ranges may be based on a single maximum or minimum value or at multiple levels that are relevant to distinctly different operating conditions, expressed as a function of process variables, expressed as maintaining the applicable indicator in a particular operational status or designated condition, or established as interdependent between more than one indicator. For CEMS, COMS, or PEMS, include the most recent certification test for the monitor.

[c] The verification for operational status should include procedures for installation, calibration, and operation of the monitoring equipment, conducted in accordance with the manufacturer's recommendations, necessary to confirm the monitoring equipment is operational prior to the commencement of the required monitoring.

[d] Emission units with post-control PTE ≥ 100 percent of the amount classifying the source as a major source (i.e., Large PSEU) must collect four or more values per hour to be averaged. A reduced data collection frequency may be approved in limited circumstances. Other emission units must collect data at least once per 24 hour period.

RATIONALE AND JUSTIFICATION

Complete this section for **EACH** PSEU that needs to be addressed in this CAM plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide rationale and justification for the selection of EACH indicator and monitoring approach and EACH indicator range in order to meet the submittal requirements specified in 40 CFR §64.4.

6a) PSEU Designation:	6b) Regulated Air Pollutant:
CF #11	PM-10

7) **INDICATORS AND THE MONITORING APPROACH**: Provide the rationale and justification for the selection of the indicators and the monitoring approach used to measure the indicators. Also provide any data supporting the rationale and justification. Explain the reasons for any differences between the verification of operational status or the quality assurance and control practices proposed, and the manufacturer's recommendations. (If additional space is needed, attach and label accordingly with the appropriate PSEU designation and pollutant):

Pressure differential: Decreases in pressure differential would indicate increases in gas flow or poor distribution across the filter media; increases in pressure differential would indicate filter clogging or decreased gas flow from sources.

8) **INDICATOR RANGES**: Provide the rationale and justification for the selection of the indicator ranges. The rationale and justification shall indicate how **EACH** indicator range was selected by either a COMPLIANCE OR PERFORMANCE TEST, a TEST PLAN AND SCHEDULE, or by ENGINEERING ASSESSMENTS. Depending on which method is being used for each indicator range, include the specific information required below for that specific indicator range. (If additional space is needed, attach and label accordingly with the appropriate PSEU designation and pollutant):

- COMPLIANCE OR PERFORMANCE TEST (Indicator ranges determined from control device operating parameter data obtained during a compliance or performance test conducted under regulatory specified conditions or under conditions representative of maximum potential emissions under anticipated operating conditions. Such data may be supplemented by engineering assessments and manufacturer's recommendations). The rationale and justification shall INCLUDE a summary of the compliance or performance test results that were used to determine the indicator range, and documentation indicating that no changes have taken place that could result in a significant change in the control system performance or the selected indicator ranges since the compliance or performance test was conducted.

- TEST PLAN AND SCHEDULE (Indicator ranges will be determined from a proposed implementation plan and schedule for installing, testing, and performing any other appropriate activities prior to use of the monitoring). The rationale and justification shall INCLUDE the proposed implementation plan and schedule that will provide for use of the monitoring as expeditiously as practicable after approval of this CAM plan, except that in no case shall the schedule for completing installation and beginning operation of the monitoring exceed 180 days after approval.

- ENGINEERING ASSESSMENTS (Indicator Ranges or the procedures for establishing indicator ranges are determined from engineering assessments and other data, such as manufacturers' design criteria and historical monitoring data, because factors specific to the type of monitoring, control device, or PSEU make compliance or performance testing unnecessary). The rationale and justification shall INCLUDE documentation demonstrating that compliance testing is not required to establish the indicator range.

RATIONALE AND JUSTIFICATION:

Engineering judgment, historical plant records of pressure differential as a maintenance indicator, and manufacturer's specifications.