

Title V Permit to Operate Renewal Application Permit Number: R30-06500001-2014 (MM01 & MM02)

September 7, 2018

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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 2013 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 March 25, 2014 (Permit No. R30-06500001-2014). This permit will expire on March 25, 2019. 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 September 25, 2018. 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 the 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 was completed during the last renewal 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) and is therefore not included.
- The General Application Forms have been signed by a Responsible Official.
- The facility is not seeking confidential information status for this submittal.
- As part of this renewal application, US Silica requests that the emergency generator be removed from the permit. The generator has not operated for multiple years and US Silica does not intend to use it in the future.
- At this time, US Silica has not completed the project authorized under R13-2145D. As such, the equipment has not been included in this application. Once the project has been completed, US Silica will submit the necessary Title V application to incorporate the changes into the permit.

OF WEST VIA	WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION	
	DIVISION OF AIR QUALITY	
	601 57 th 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 t	

1. Name of Applicant (As registered with the WV Secretary of State's Office):	2. Facility Name or Location: Berkeley Springs Plan	
U.S. Silica Company		
3. DAQ Plant ID No.:	4. Federal Employer ID No. (FEIN):	
065—00001	23-0958670	
5. Permit Application Type:		
Initial Permit When did op	perations commence?	
Permit Renewal What is the	expiration date of the existing permit? 03/25/2019	
Update to Initial/Renewal Permit Application		
6. Type of Business Entity:	7. Is the Applicant the:	
Corporation Governmental Agency LLC Partnership Limited Partnership	Owner Operator Both	
8. Number of onsite employees:78	please provide the name and address of the other party.	
9. Governmental Code:		
Privately owned and operated; 0	County government owned and operated; 3	
Federally owned and operated; 1	Municipality government owned and operated; 4	
State government owned and operated; 2	District government owned and operated; 5	
10. Business Confidentiality Claims		
Does this application include confidential information (per 45CSR31)?		
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 " <i>PRECAUTIONARY NOTICE-CLAIMS OF CONFIDENTIALITY</i> " guidance.		

11. Mailing Address		
Street or P.O. Box: P.O. Box 187		
City: Berkeley Springs	State: WV	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: 217 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?		
Is facility located within 50 miles of another state? Xes No		If yes, name the affected state(s). Maryland Pennsylvania
Is facility located within 100 km of a Class I Area ¹ ? Yes No If yes, name the area(s). If no, do emissions impact a Class I Area ¹ ? Yes No		
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: 24275 Katy Freeway, Suit	e 600		
City: Katy	State: Texas	Zip: 77494	
Telephone Number: 281-258-2170	Fax Number: n/a	Fax Number: n/a	
E-mail address: winkler@ussilica.com			
Environmental Contact: Kayla Bucheimer		Title: Regional Environmental Manager	
Street or P.O. Box: PO Box 187			
City: Berkeley Springs	State: West Virginia	Zip: 25411	
Telephone Number: (304) 433-6337	6337 Fax Number: n/a		
E-mail address: bucheimer@ussilica.com			
Application Preparer: Kayla Bucheimer		Title: Regional Environmental Manager	
Company: U.S. Silica Company			
Street or P.O. Box: P.O. Box 187			
City: Berkeley Springs	State: WV	Zip: 25411	
Telephone Number: (304) 433-6337	Fax Number: n/a		
E-mail address: bucheimer@ussilica.com			

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 op	erations.		
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.			

18. Applicable Requirements Summary		
Instructions: Mark all applicable requirements.		
⊠ SIP	FIP	
Minor source NSR (45CSR13)	PSD (45CSR14)	
NESHAP (45CSR34)	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)	Compliance Assurance Monitoring (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*).

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*).

R30-06500001-2014 (MM 01 & MM 02) 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.]

R30-06500001-2014 (MM 01 & MM 02) 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.]

R30-06500001-2014 (MM 01 & MM 02) 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 prescribed 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]

R30-06500001-2014 (MM 01 & MM 02) 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.]

R30-06500001-2014 (MM 01 & MM 02) 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]

R30-06500001-2014 (MM 01 & MM 02) 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)]

R30-06500001-2014 (MM 01 & MM 02) 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 (M VACs) 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.

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.

Permit Shield

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

R30-06500001-2014 (MM 01 & MM 02) 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 evaluation 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.]

R30-06500001-2014 (MM 01 & MM 02) 3.2.2. 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 t ruck 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.]

Note : Process Source operations include the following : Primary Crushing Plant, Secondary Crushing Plant, Wet Processing Plant, Screening and unground sand Processing, Milling, 10/15/30/40 Micron Classification, 5 Micron Classification, Wet Float Plant & Storage Structures.

R30-06500001-2014 (MM 01 & MM 02) 3.2.3. (Note: The following section numbers match those of 40 C.F.R. §64.7)

(b) *Proper maintenance*. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

(c) *Continued operation*. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

(d) *Response to excursions or exceedances.* (1) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

(2) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

(e) *Documentation of need for improved monitoring*. After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the permitting authority and, if necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters. [40CFR§64.7; 45CSR§30-5.1.c.]

Note: This requirement is applicable to sections 4, 5 & 6 of this permit.

R30-06500001-2014 (MM 01 & MM 02) 3.2.4. (Note: The following section numbers match those of 40 C.F.R. §64.8)

§ 64.8 Quality improvement plan (QIP) requirements.

- (a) Based on the results of a determination made under § 64.7(d)(2), the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with § 64.6(c)(3), the part 70 or 71 permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.
- (b) Elements of a QIP:

(1) The owner or operator shall maintain a written QIP, if required, and have it available for inspection.

(2) The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:

(i) Improved preventive maintenance practices.

(ii) Process operation changes.

(iii) Appropriate improvements to control methods.

(iv) Other steps appropriate to correct control performance.

(v) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (b)(2)(i) through (iv) of this section).

(c) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the permitting authority if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

(d) Following implementation of a QIP, upon any subsequent determination pursuant to 64.7(d)(2) the Administrator or the permitting authority may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:

(1) Failed to address the cause of the control device performance problems; or

(2) Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(e) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.

[40CFR§64.8; 45CSR§30-5.1.c.]

Note: This requirement is applicable to sections 4, 5 & 6 of this permit.

Testing Requirements

R30-06500001-2014 (MM 01 & MM 02) 3.3.1. 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:

a. 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.

b. 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.

c. 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.

d. 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:

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

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

3. A statement of compliance or non-compliance with each permit or rule condition. [WV Code § 22-5-4(a)(14-15) and 45CSR13]

R30-06500001-2014 (MM 01 & MM 02) 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 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.]

R30-06500001-2014 (MM 01 & MM 02) 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]

R30-06500001-2014 (MM 01 & MM 02) 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

R30-06500001-2014 (MM 01 & MM 02) 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)

R30-06500001-2014 (MM 01 & MM 02) 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]

R30-06500001-2014 (MM 01 & MM 02) 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.]

R30-06500001-2014 (MM 01 & MM 02) 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 45CSR7A, 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

R30-06500001-2014 (MM 01 & MM 02) 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.]

R30-06500001-2014 (MM 01 & MM 02) 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.]

R30-06500001-2014 (MM 01 & MM 02) 3.5.3. Except for the electronic submittal of the annual compliance certification and semi-annual monitoring reports to the DAQ and USEPA as required in 3.5.5. and 3.5.6. 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, or mailed first class or by private carrier with postage prepaid to the address(es), or submitted in electronic format by e-mail as set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

-	
DAQ:	US EPA:
Director	Associate Director
WVDEP	Office of Air Enforcement and
Division of Air Quality	Compliance Assistance (3AP20)
601 57th Street SE	U. S. Environmental Protection Agency
Charleston, WV 25304	Region III
	1650 Arch Street
	Philadelphia, PA 19103-2029

R30-06500001-2014 (MM 01 & MM 02) 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. The semi-annual monitoring reports shall be submitted in electronic format by e-mail to the following address:

DAQ: DEPAirQualityReports@wv.gov

[45CSR§30-5.1.c.3.A.]

R30-06500001-2014 (MM 01 & MM 02) 3.5.7. Emergencies. For reporting emergency situations, refer to Section 2.17 of this permit.

R30-06500001-2014 (MM 01 & MM 02) 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:

4. 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.

5. 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.

6. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.
7. 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.]
R30-06500001-2014 (MM 01 & MM 02) 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 (<i>if any</i>)	
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		
R13-2145F	September 11, 2017		
R13-2423B	July 24, 2017		
R13-2299A	August 29, 2003		

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

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	194		
Particulate Matter (PM ₁₀) ¹	1039		
Total Particulate Matter (TSP)	2304		
Sulfur Dioxide (SO ₂)	267		
Volatile Organic Compounds (VOC)	1.27		
Hazardous Air Pollutants ²	Potential Emissions		
Total HAP	<0.1		
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
CO ₂	51,488		
CH4	2		
N2O	0.4		
¹ $PM_{2.5}$ and PM_{10} are components of TSP.			
Calculations of CO_2 , CH4, and N2O were based off #6 oil, the highest emitter of all permitted fuel sources.			

Section 4: Insignificant Activities

24.	Insign	ificant Activities (Check all that apply)
\bowtie	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.
\boxtimes	4.	Bathroom/toilet vent emissions.
\square	5.	Batteries and battery charging stations, except at battery manufacturing plants.
\boxtimes	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.
\square	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.
\boxtimes	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.
\square	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.
\bowtie	15.	Drop hammers or hydraulic presses for forging or metalworking.
\square	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.
\square	18.	Emergency road flares.
\boxtimes	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

24. Insignificant Activities (Check all that apply)		
	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.
\boxtimes	26.	Fire suppression systems.
	27.	Firefighting equipment and the equipment used to train firefighters.
	28.	Flares used solely to indicate danger to the public.
\square	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.
\boxtimes	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.
\boxtimes	34.	Indoor or outdoor kerosene heaters.
\square	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.)
M	42.	Portable electrical generators that can be moved by hand from one location to another. "Moved by

24.	24. Insignificant Activities (Check all that apply)		
		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.	
\boxtimes	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.	
\boxtimes	45.	Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.	
\boxtimes	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.	
\boxtimes	50.	Space heaters operating by direct heat transfer.	
\boxtimes	51.	Steam cleaning operations.	
	52.	Steam leaks.	
	53.	Steam sterilizers.	
	54.	Steam vents and safety relief valves.	
\boxtimes	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.	
\boxtimes	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.	

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**.

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 Winkler

Title: Vice President of Operations

Responsible official's signature:

Signature:

(Must be signed and dated in blue ink)

9/11/18

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

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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 <u>www.dep.wv.gov/dag</u>, requested by phone (304) 926-0475, and/or obtained through the mail.

Attachment A

Location Map



Berkeley Springs Plant Location Map



Attachment B

Plot Plant

U.S. Silica Plot Plan





Attachment C

Flow Diagram

Figure 1. Primary and Secondary Crushing



CF #1

WSc #2





Torit DF-4DF-48

WSc #3

Impinjet 1130





WSc #8





CF #36

CF #40

CF #25



CF #6



CF #10 CF #11 CFH 40T-20-B Torit DFT 4-48





CF #27





CF #11





CF #38
Figure 9. Loading and Packaging

Torit DF-T3-24 Torit DF-T4-16 Torit DF-2D-F4 CFH-18-20-VB Torit DF-T4-16 Torit DF-2DF-4 CFH-18-20-VB CFH 8-20-V

CF #33

CF #34

CF #38

CF #39

CF #29



CF #13

CF #20

CF #28

Attachment D

Equipment Table

Process Flow Diagram Number	Emission Point ID	Control Device ¹	Emission Unit ID	Emission Unit Description	Design Capacity TPY	Year Installed/ Modified	
Primary Crushing Plant							
1	T1-T2	N/A	VIBFD1	Primary Crusher Feed Bin and Vibratory Feeder	1000	Pre-1970	
2	Stack #1	CF #1	CRUSH2	4' Jaw Crusher	800	Pre-1970	
3	Stack #1	CF #1	CONV3	42" Short Belt under Primary Crusher	800	Pre-1970	
4	Stack #1	CF #1	CONV2	42" Incline Belt	800	Pre-1970	
5	Т3	N/A	CONV1	42" Stacker Belt to Reclaim Stockpile	800	Pre-1970	
6	Reclaim Stockpile	N/A (PE)	Reclaim Stockpile	Reclaim Stockpile	800	Pre-1970	
Secondary Cru	shing Plant						
7	N/A	N/A (PE)	VIBFD2	Vibratory Feeders #1, #2, #3, #4 and #5 in Reclaim Tunnel	400	Pre-1970	
8	N/A	N/A (PE)	CONV4	36" Reclaim Conveyor	400	Pre-1970	
9	N/A	N/A (FE)	CONV5	42" Conveyor to Secondary Crusher	400	Pre-1970	
10	Stack #2	WSc #2	CRUSH3	Symons Secondary Crusher and Surge Bin	400	Pre-1970	
44	N/A	N/A (FE)	CONV6	36" Discharge Conveyor from Secondary Crusher (#1 Stone Tank Transfer Conveyor)	400	Pre-1970	
11.1	N/A	N/A (FE)	CONV6	36" Conveyor	400	Pre-1970	
12.1	N/A	N/A (FE)	CONV7	30" Transfer Conveyor	400	Pre-1970	
13	F4	N/A (FE)	CONV8	36" Conveyor to #2 Stone Tank	400	Pre-1970	
Wet Processing	g Plant (Rod Mi	ll Building)					
14	N/A	N/A (FE)	CONV12	24" #2 Stone Tank discharge conveyor C-1	200	Pre-1970	
15	N/A	N/A (FE)	CONV13	24" Conveyor C-2	200	Pre-1970	
16	N/A	N/A (FE)	CONV14	24" Conveyor C-3	200	Pre-1970	
17	N/A	N/A (FE)	MILL1	Hardinge Rod Mill	200	Pre-1970	
18	N/A	N/A (SS)	CONV15	18" Conveyor C-4 to Rod Mill Tailings	150	Pre-1970	
19.1	N/A	N/A (FE)	SCREN1	METSO 8 x 20 Screen	200	Pre-1970	
20	N/A	N/A	TANK2	Vessels, Bins, Tanks and Slurry Boxes in Rod Mill Building	200	Pre-1970	
21	N/A	N/A (FE)	WETSE1 - WETSE5	#1, #2, #3, #4 and #5 Linatex Separators	200	Pre-1970	
22	N/A	N/A (SS)	FERRO1	Ferro Filters	200	Pre-1970	
23.1	N/A	N/A (SS)	CLASS3 & 4	Hydrosizers	200	Pre-1970	

Process Flow Diagram Number	Emission Point ID	Control Device ¹	Emission Unit ID	Emission Unit Description	Design Capacity TPY	Year Installed/ Modified
24	N/A	N/A (SS)	FCell	Outokumpo Flotation Cells	160	2004
25	N/A	N/A (FE)	CONV54	Feed Conveyor to Denver Ball Mill	50	2000
26	N/A	N/A (FE)	MILL8	Denver 4 x 8 Ball Mill	50	2000
27	N/A	N/A (SS)	PIPE1	Wet Process Sand Slurry Piping	50	Pre-1970
28	N/A	N/A (SS)	CONV18	30" Stationary Conveyor in Fluid Bed Drain Shed (Bldg #6)	200	Pre-1970
29.1	N/A	N/A (FE)	CONV17	30" Shuttle Conveyor in Fluid Bed Drain Shed	200	Pre-1970
29.2	N/A	N/A (FE)	CONV19	30" Shuttle Conveyor in Fluid Bed Drain Shed	200	Pre-1970
30	N/A	N/A (FE)	CONV20 & CONV22	30" F-1 Feed Hopper Conveyor and 30" F-2 Feed Hopper Conveyor	200	1975
31	T5	N/A (PE)	CONV21	24" C-1 Outside Conveyor	200	1975
32	T6	N/A (PE)	CONV23	24" C-2 Outside Conveyor	200	1975
33	N/A	N/A (PE)	CONV24	24" C-3 Conveyor	200	1975
34.1	N/A	N/A	V1BFD4	C3 Belt, Vibratory Feeder	200	1975
35	Stack #3	WSc #3	DRYER #1 (3s)	Fluid Bed Dryer (71 MMBtu/hr)	200	1975
36	Stack #25	CF #25	CONV25	30" C-4 Tunnel Conveyor	200	1975
37	Stack #25	CF #25	SCREN16	Tyler Ty-Speed Shaker Screen	200	1995
Wet Float Plan	t					
38	N/A	N/A (SS)	Slurry Pumps	Slurry Pumps	25	Pre-1948
39	N/A	N/A (SS)	CYCLO4 & CYCLO5	#1 and #2 Wet Cyclones	25	Pre-1948
40	N/A	N/A (SS)	FERRO2	Ferro Filters	25	Pre-1948
41	N/A	N/A (SS)	CYCLO3	#4 Wet Cyclone	25	Pre-1948
41.1	N/A	N/A (SS)	CYCLO2	Wet Cyclone Overrake	25	Pre-1948
42	N/A	N/A (SS)	Drain Shed	Drain Shed	25	Pre-1948
43	N/A	N/A (SS)	CONV46	24" Conveyor	25	Pre-1970
44	N/A	N/A (SS)	CONV47	24" Long Conveyor Belt	25	Pre-1970
45	N/A	N/A (BE)	CLASS5	Rake Classifier	25	Pre-1970
46	N/A	N/A (BE)	Conditioner	Conditioner	25	Pre-1970
47	N/A	N/AN/A (BE)	Floatation	Floatation	25	Pre-1970
48	N/A	N/A	Vacuum Table	Vacuum Table	25	Pre-1970
49	N/A	N/A (BE)	CONV48	18" Thrower Conveyor Belt	25	Pre-1970
50	N/A	N/A (BE)	CONV50	30" Damp Loadout Conveyor Belt	25	Pre-1970

Process Flow Diagram Number	Emission Point ID	Control Device ¹	Emission Unit ID	Emission Unit Description	Design Capacity TPY	Year Installed/ Modified
51	N/A	N/A (BE)	CONV49	24" Conveyor	25	Pre-1970
52	Stack #8	WSc #8	DRYER #2 (8S)	Rotary Dryer (17.1 MMBtu/hr)	25	Pre-1970
53	N/A	N/A (BE)	SCREW21	#1 Screw Conveyor	25	Pre-1970
54	Stack #9	CF #9	ELEV19	#1 Elevator	25	Pre-1970
56	Stack #9	CF #9	SCREN18 (1E)	#2 Rotex Screen (2S)	50	1999
57	N/A	N/A (BE)	SCREW22	#2 Screw Conveyor	25	Pre-1970
58	Stack #9	CF #9	ELEV20	#2 Elevator	25	Pre-1970
59	Stack #9	CF #9	PACKR8 (1E)	BFS Bulk Bagger	30	1998
Milling Proce	ess					
60	Stack #27	CF #27	Pulverizer Tank #19	#1 through #4 Pebble Mills Feed Silo	150	Pre-1970
61	Stack #10	CF #10	SCREW3	Mills #1 and #2 Screw Conveyor	30	Pre-1970
62.1	Stack #11	CF #11	SCREW5	Cross Conveyor	30	Pre-1970
63.1	Stack #11/#10	N/A (FE)	SCREW4	Mills #3 and #4 Screw Conveyor	30	Pre-1970
64	Stack #10	CF #10	#1 Mill Feed Bin	#1 Mill Feed Bin	100	Pre-1970
65	Stack #10	CF #10	#2 Mill Feed Bin	#2 Mill Feed Bin	100	Pre-1970
66.1	Stack #11	CF #11	#3 Mill Feed Bin	#3 Mill Feed Bin	100	Pre-1970
67.1	Stack #11	CF #11	#4 Mill Feed Bin	#4 Mill Feed Bin	100	Pre-1970
68	Stack #10	CF #10	FEEDB1	#1 Pebble Mill Feeder Belt	15	Pre-1970
69	Stack #10	CF #10	FEEDB2	#2 Pebble Mill Feeder Belt	15	Pre-1970
70.1	Stack #11	CF #11	FEEDB3	#3 Pebble Mill Feeder Belt	15	Pre-1970
71.1	Stack #11	CF #11	FEEDB4	#4 Pebble Mill Feeder Belt	15	Pre-1970
72.1	N/A	N/A (FE)	MILL2	#1 Pebble Mill	100	Pre-1970
73.1	N/A	N/A (FE)	MILL3	#2 Pebble Mill	100	Pre-1970

Process Flow Diagram Number	Emission Point ID	Control Device ¹	Emission Unit ID	Emission Unit Description	Design Capacity TPY	Year Installed/ Modified
74.1	N/A	N/A (FE)	MILL4	#3 Pebble Mill	100	Pre-1970
75.1	N/A	N/A (FE)	MILL5	#4 Pebble Mill	100	Pre-1970
76	Stack #10	CF #10	SCREW6	#1 Mill Discharge Screw Conveyor	100	Pre-1970
77	Stack #10	CF #10	AIRSD7	Airslide for #2 Mill discharge	100	Pre-1970
78.1	Stack #11	CF #11	SCREW7	#3 Mill Discharge Screw Conveyor	100	Pre-1970
79.1	Stack #11	CF #11	AIRSD8	Airslide for #4 Mill discharge	100	Pre-1970
80	Stack #10	CF #10	ELEV6	#1 Mill Elevator	100	Pre-1970
81	Stack #10	CF #10	ELEV7	#2 Mill Elevator	100	Pre-1970
82.1	Stack #11	CF #11	ELEV8	#3 Mill Elevator	100	Pre-1970
83.1	Stack #11	CF #11	ELEV9	#4 Mill Elevator	100	Pre-1970
84	N/A	N/A (FE)	AIRSE1	#1 Air Separator	100	Pre-1970
85	N/A	N/A (FE)	AIRSE2	#2 Air Separator	100	Pre-1970
86	N/A	N/A (FE)	AIRSE3	#3 Air Separator	100	Pre-1970
87	N/A	N/A (FE)	AIRSE4	#4 Air Separator	100	Pre-1970
88	N/A	N/A (FE)	AIRSD9	Airslide for #1 Separator Feed	100	Pre-1970
89	N/A	N/A (FE)	SCREW16	#3 Air Separator Screw Conveyor	100	Pre-1970
90	N/A	N/A (FE)	SCREW17	#4 Air Separator Screw Conveyor	100	Pre-1970
91	Stack #39	CF #39	ELEV14	#14 Elevator	150	Pre-1970
92	Stack #27	CF #27	Pulverizer Tank #20	#5 and #6 Pebble Mills Feed Silo	150	Pre-1970
93	Stack #12	CF #12	#5 Mill Feed Bin	#5 Mill Feed Bin	100	Pre-1970
94	Stack #12	CF #12	FEEDB5	#5 Pebble Mill Feeder Belt	15	Pre-1970
95	Stack #12	CF #12	MILL6	#5 Pebble Mill	100	Pre-1970
96	N/A	N/A (FE)	AIRSD2	Airslide discharge for #5 Mill	100	Pre-1970
97	Stack #12	CF #12	ELEV10	#5 Mill Elevator	100	Pre-1970
98	N/A	N/A (FE)	AIRSE5	#5 Air Separator	100	Pre-1970
99	N/A	N/A (FE)	SCREW18	#5 Air Separator Screw Conveyor	100	Pre-1970

Process Flow Diagram Number	Emission Point ID	Control Device ¹	Emission Unit ID	Emission Unit Description	Design Capacity TPY	Year Installed/ Modified
100	Stack #12	CF #12	#6 Mill Feed Bin	#6 Mill Feed Bin	100	Pre-1970
101	Stack #12	CF #12	FEEDB6	#6 Pebble Mill Feeder Belt	15	Pre-1970
102.1	N/A	N/A (FE)	MILL7	#6 Pebble Mill	100	Pre-1970
103	Stack #12	CF #12	AIRSD3	Airslide discharge for #6 Mill	100	Pre-1970
104	Stack #12	CF #12	ELEV11	#6 Mill Elevator	100	Pre-1970
105	N/A	N/A (FE)	AIRSE6	#6 Air Separator	100	Pre-1970
106	N/A	N/A (FE)	SCREW19	#6 Air Separator Screw Conveyor	100	Pre-1970
107.1	Stack #41	CF #41	Microsizer #3	MS-20 Microsizer #3	25	2005
108	Stack #41	CF #41	BF1	Microsizer #3 Belt Feeder	20	2005
109.1	Stack #41	CF #41	BE1	Ground Fines Bucket Elevator #1	20	2005
110.1	Stack #41	CF #41	BE2	CGS Elevator #2	20	2005
111	Stack #41	CF #41	Screen21	CGS Rotex Screen	25	2005
112.1	Stack #41	CF #41	AS2	Airslide 2 for Ground Fines	20	2005
115	Stack #41	CF #41	Airslide 100	Airslide (2s) for CGS	8	2005
205.1	N/A	N/A (FE)	AIRSD1- GENERIC	Generic EUID for Air Slides	100	N/A
206.1	Stack #12	CF #12	ELEV15	# 9 Bucket Elevator	100	Pre- 1970
207.1	Stack #12	CF #12	BIN2	Surge Bin	100	Pre-1970
Screening and	Unground Sand	Processing				
119	Stack #6	CF #6	BE01 (E2)	Bucket Elevator #1	150	2012
120	Stack #6	CF #6	BE02 (E2)	Bucket Elevator #2	150	2012
121	Stack #6	CF #6	LS01 (FE3)	Dust Suppression Hopper (DSH) System Load out Spout	150	2012
	N/A	N/A	MOB-CONV	342D Mobile Conveyor	300	2017
	N/A	N/A	BE-03	Cristobalite Bucket Elevator #3	100	2017

Process Flow Diagram Number	Emission Point ID	Control Device ¹	Emission Unit ID	Emission Unit Description	Design Capacit y TPY	Year Installed/ Modified
	N/A	N/A	C Silo	Cristobalite Silo	150	2017
122	Stack #25	CF #25	CONV26	24" #3 Dryer Conveyor	200	Pre-1975
123	Stack #25	CF #25	CONV27	24" #2 Tunnel Conveyor	200	Pre-1975
124	Stack #6	CF #6	ELEV4	#1 Elevator	200	Pre-1975
125	Stack #6	CF #6	VIBFD5	Grasshopper Vibrating Feeder	200	1973
126	Stack #6	CF #6	CONV39-41	#1 to #3 Magnet Rolls	200	Pre-1975
127	Stack #36	CF #36	SCREN7-9 & SCREN14-15 (IE)	#1 through #5 Rotex Screens (1S-5S)	375	1995-1997
128	Stack #6	CF #6	CONV 30	20" Tailings Conveyor	30	Pre-1975
129	Stack #6	CF #6	CONV29	#1 Dry Sand Conveyor	175	Pre-1975
130	Stack #7	CF #7	ELEV2	#3 Elevator	30	Pre-1975
131	Stack #7	CF #7	ELEV1	#2 Elevator	75	Pre-1975
132	Stack #7	CF #7	ELEV3	#4 Elevator	75	Pre-1975
133.1	Stack #7	CF #7	SCREN10-13 & SCREN22-23, SCREN4 AND SCREN17	SCREN10-13: #71 through #74 Rotex Screens, SCREN22— 23: #61 and #62 Rotex Screens, SCREN4: Tyler Hummer Screen, and SCREN17: #1 Rotex Screen	75 SCREN17: 50	Modified 1996 Pre- 1975 SCREN17: 1999
134	Stack #7	CF #7	CONV31	24" #9 and #10 Tank Conveyor	75	Pre-1975
135	N/A	N/A (FE)	CONV32	24" # 11 and #12 Tank Conveyor	75	Pre-1975
136	N/A	N/A (FE)	CONV36	20" C-10 Conveyor	110	Pre-1975
137	N/A	N/A (FE)	CONV37	20" C-11 Conveyor	110	Pre-1975
138	Stack #7	CF #7	CONV33	24" #1 Pulverizer Tank Belt Conveyor	200	Pre-1975
139	N/A	N/A (FE)	CONV34	24" #2 Pulverizer Tank Belt Conveyor	200	Pre-1975
140	Stack #27	CF #27	CONV51	24" 30 Mesh Loadout Conveyor	200	Pre-1975
141	Stack #40	CF #40	PACKR1	Packaging Machine for Whole Grain Sand	200	Pre-1975
Classification (10/15/30/40 Mi	icron)				
142.1	Stack #11	CF #11	AIRSL12	Airslide and #1 MS-20 Microsizer	85	1996
143.1	Stack #12	CF #12	AIRSI13	Airslide and #2 MS-20 Microsizer	85	1996
144	Stack #12	CF #12	Tailing Bins	Tailing Bins	130	Pre-1975
145	Stack #12	CF #12	PNEU2	#1 Macawber Pneumatic Pumping Station	15	1996
146.1	Stack #11	CF #11	PNEU4	#2 Macawber Pneumatic Pumping Station	15	1996
147	Stack #12	CF #12	BIN7	#1 & #2 Pump Feed Bins	15	Pre-1975
148	Stack #12	CF #12	#1 & #2 Pumps	#1 and #2 pneumatic pumps	15	1996

Process Flow Diagram Number	Emission Point ID	Control Device ¹	Emission Unit ID	Emission Unit Description	Design Capacity TPY	Year Installed/ Modified
5 Micron Classification						
151.1	Stack #11	CF #11	ELEV16	5 Micron Feed Elevator (7S)	150	1996
152	Stack #37	CF #37	5 Micron Feed Bin	5 Micron Feed Bin (6S)	150	1996
153	N/A	N/A (FE)	AIRSE8 -16, 18 &19	Air Separators (8 ea), and #18 and #19	20	1973
154	Stack #37	CF #37	ELEV17	5 Micron Return Elevator (8S)	150	1996
155	Stack #37	CF #37	BIN5	5 Micron Product Feed Bin (1S)	10	1996
156.1	Stack #38	CF #38	BIN4	Bulk Storage Loading Bin and Loadout (2S)	10	1996
157.1	Stack #38	CF #38	MIN-U-SIL Bagger Bin	Bagger Bin (4S)	15	1996
158.1	Stack #38	CF #38	PACKR7	MIN-U-SIL Bagger (5S)	15	1996
159.1	Stack #13	CF #13	PEMCO Elevator	PEMCO Elevator/FCP Tanks and Bulk Loadout Spout (3S1)	150	Pre 1983
160	Stack #20	CF #20	PACKR4	#2 Autobagger and Feed Bin	20	1981
161.1	Stack #20	CF #20	PACKR3	#1 Autobagger and Feed Bin	20	1981
162	Stack #34	CF #34	PACKR5 (1e & 2e)	Bulk Bagger and Feed Bin (1s and 2s)	15	1988
Storage Structu	ires		•			
163.1	Stack #7	CF #7	Tank #7 & Tank #15	Storage Tank #15 Intervented to Tank #7 at the New Screen Tower	150	Pre-1948
163.2	Stack #7	CF #7	Tank #8 and Tank #16	Storage Tank #16 intervented to Tank #8 at New Screen Tower	150	Pre-1948
164.1	Stack #7	CF #7	Tanks #13 & #17	Storage tanks #13 and #17 at the New Screen Tower	150	Pre-1970
165	Stack #27	CF #27	Tanks #9 - #12	Storage tanks #9, #10, #11 & #12 at the New Screen Tower	150	Pre-1970
166.1	N/A	N/A	Tanks #14 & #18	Storage tanks #14 and #18 at the New Screen Tower	150	Pre-1970
167	Stack #27	CF #27	Steel Tank #21	Steel Tank at the New Screen Tower	100	Pre-1970
168.1	Stack #13	CF #13	CGS Tank	CGS Tank	800	1998
169	Stack #13	CF #13	PEMCOTank	PEMCO Tank	250	Pre 1983
170	Stack #33	CF #33	Supersil Storage Silos #1 - #4 (1e-4e)	#1 through #4 Silos	125	1984
171	Stack #29	CF #29	MIN-U-SIL storage silo #5 (5e)	#5 Silo	125	1984
172.1	Stack #28	CF #28	MIN-U-SIL storage silos #6 & #7 (6e &	#6 and #7 Silos	100	1984, 1999
172.2	Stack #28	CF #28	MIN-U-SIL storage silo #8 (6e & E1)	#8 Silo	100	1984, 1999

Process Flow Diagram Number	Emission Point ID	Control Device ¹	Emission Unit ID	Emission Unit Description	Design Capacity PY	Year Installed/ Modified
173.1	Stack #9	CF #9	ISTANK18	Concrete Tank at the Float Plant	100	Pre-1970
174	Stack #9	CF #9	Steel Storage Tank	Steel Tank at the Float Plant	100	Pre-1970
175	Stack #27	CF #27	SPOUT1	30 Mesh Loadout Spout (SPOUT1)	150	Pre-1970
176	Stack #27	CF #27	SPOUT2	Dry Sand Loadout Spout (SPOUT2)	150	Pre-1970
177.1	Stack #27	CF #27	SPOUT3	DCL Loadout Spout (SPOUT3)	200	Pre-1970
178	Stack #9	CF #9	SPOUT4	Float Plant Loadout Spout (SPOUT4)	150	Pre-1970
179	Stack #28	CF #28	SPOUT5	10 Micron Loadout Chute (SPOUT5)	150	Pre-1970
180.1	Stack #13	CF #13	SPOUT6	PEMCO/DCL Loadout System (SPOUT6)	250	Pre-1970
181.1	Stack #6	CF #6	QROK SPOUTS	Q ROK Bulk Loading Spouts	150	Pre-1970
181.2	N/A	N/A	Q ROK SPOUTS	Q ROK Bulk Loading Spouts	150	Pre-1970
203.1	N/A	N/A	#1 Stone Tank	#1 Stone Tank (Inside Building)	200	Before 1976
204.1	N/A	N/A	#2 Stone Tank	#2 Stone Tank (Inside Building)	200	Before 1976
Miscellaneous			•			
182	N/A	N/A	Roads	Unpaved Quarry Haul Roads, and Paved and Unpaved Plant Roadways		Pre-1970
	N/A	N/A	Golf Sand Stockpile	Stockpile		
	N/A	N/A	Float Sand Stockpile	Stockpile		
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	Т8	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	Before 1976
Generator		N/A		Emergency SI Propane Generator	25 HP	Before 2006

¹For 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 have 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 Filter.

Attachment E Emission Unit Forms

For grouped equipment- throughput is lowest allowed of all listed equipment.

Emission Unit Description				
Emission unit ID number: CRUSH2, CONV3, CONV2	Emission unit name: Primary Crushing Plant	List any control de with this emission CF #1	evices associated unit:	
Provide a description of the emiss Primary Crushing Plant (Stack #1)	ion unit (type, method of operation, des	ign parameters, etc.):	:	
Manufacturer:	Model number:	Serial number:		
Donaldson	Torit DF-T4-32	NA		
Construction date:	Installation date:	Modification date(s):	
Pre-1970	Pre-1970	NA		
Design Capacity (examples: furna 800	ices - tons/hr, tanks - gallons):	-		
Maximum Hourly Throughput:	Maximum Annual Throughput:	t: Maximum Operating Schedule:		
800	7,000,000 TPY	8760 Hours/Year		
Fuel Usage Data (fill out all applied	cable fields)			
Does this emission unit combust f	uel? No	If yes, is it?		
Maximum design heat input and/o	or maximum horsepower rating:	Type and Btu/hr ra burners:	ating of	
List the primary fuel type(s) and i the maximum hourly and annual	f applicable, the secondary fuel type(s). fuel usage for each.	For each fuel type lis	sted, provide	
Describe each fuel expected to be	used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Emissions Data				
Criteria Pollutants	Potential Emissions			
	РРН	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			
	РРН	TPY		
None				
Regulated Pollutants other than	Potentia	al Emissions		
Criteria and HAP	РРН	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, 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 <u>construction permit</u> 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

6.1.2. The following Non-NSPS Fabric Filter pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the filters to attain the required minimum particulate removal efficiency. Filter pressure drop shall be monitored at least once per day. The monitoring device is to be certified to be accurate within 0.1 inch water gauge. An excursion shall be defined as when the filter pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the filter and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

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, 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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1. [45CSR§30-5.1c]

Testing Requirements

NA [R30-06500001-2014 (MM01 & MM02) sections 6.3.]

Recordkeeping Requirements

Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2014 (MM01 & MM02) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2014 (MM01 & MM02) 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 R30-06500001-2014 (MM01 & MM02) 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?

Emission Unit Description					
Emission unit ID number: CRUSH3	Emission unit name: Secondary Crushing Plant	List any control d with this emission WSc #2	levices associated a unit:		
Provide a description of the emiss Secondary Crushing Plant (Stack #2	ion unit (type, method of operation, de	sign parameters, etc.):		
Manufacturer:	Model number:	Serial number:			
Sly	Impinjet 270	NA			
Construction date:	Installation date:	Modification date	e(s):		
Pre-1970	Pre-1970	NA			
Design Capacity (examples: furna 400	aces - tons/hr, tanks - gallons):				
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Opera	ting Schedule:		
400	3,500,000 TPY	8760 Hours/Year			
Fuel Usage Data (fill out all applied	cable fields)				
Does this emission unit combust f	uel? No	If yes, is it?			
Maximum design heat input and/	or maximum horsepower rating:	Type and Btu/hr : burners:	Type and Btu/hr rating of burners:		
List the primary fuel type(s) and i the maximum hourly and annual	f applicable, the secondary fuel type(s) fuel usage for each.). For each fuel type l	isted, provide		
Describe each fuel expected to be	used during the term of the permit.				
Fuel Type	Max. Sulfur Content	Max. Ash Content	Max. Ash BTU Value Content		
<u> </u>					
1					

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	ТРҮ
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	
	РРН	ТРҮ
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	ТРҮ

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, 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 <u>construction permit</u> 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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1. [45CSR§30-5.1c]

6.2.2. The wet scrubber Wsc#2 shall be observed daily during periods of 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 45CSR§7A 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 45CSR§7A 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 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 [R30-06500001-2014 (MM01 & MM02) sections 6.3.]

Recordkeeping Requirements

Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2014 (MM01 & MM02) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2014 (MM01 & MM02) 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 R30-06500001-2014 (MM01 & MM02) 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?

Emission Unit Description				
Emission unit ID number: DRYER1 (3s)	Emission unit name: Wet Processing Plant (Rod Mill Building)	List any control d with this emission WSc #3	evices associated unit:	
Provide a description of the emiss Dryers - Fluid Bed Dryer (3S), Stac	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:	Installation date:	Modification date	e(s):	
1975	1975	NA		
Design Capacity (examples: furna 200	Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 200			
Maximum Hourly Throughput: 200	Maximum Annual Throughput: 1,750,000 TPY	Maximum Opera 8760 Hours/Year	ting Schedule:	
Fuel Usage Data (fill out all applied	cable fields)	1		
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	150,000 BTU/gal	
Distillate Oils	1.2 %	negligible	150,000 BTU/gal	
Residual Oils	1.5 %	0.05-0.1	140,000 BTU/gal	

Emissions Data			
Criteria Pollutants	Potential Emissions		
	PPH	ТРҮ	
Carbon Monoxide (CO)	2.52	13.75	
Nitrogen Oxides (NO _X)	18.3	96.35	
Lead (Pb)	negligible	negligible	
Particulate Matter (PM _{2.5})	12.8	-	
Particulate Matter (PM ₁₀)	12.8	-	
Total Particulate Matter (TSP)	12.8	95.48	
Sulfur Dioxide (SO ₂)	130.7	267	
Volatile Organic Compounds (VOC)	0.23	1.27	
Hazardous Air Pollutants	Potential Emissions		
	PPH	ТРҮ	
All	Insignificant	Insignificant	
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP	PPH	ТРҮ	
List the method(s) used to calculate the versions of software used, source and	he potential emissions (include da dates of emission factors, etc.).	tes of any stack tests conducted,	
Notes:			
Applicable Requirements			

List all applicable requirements for this emission unit. 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*). 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 representative, 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]

The following scrubber pressure drop ranges obtained from stack test and historical data are 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. The monitoring device is to be certified to be accurate within \cdot 0.1 inch

water gauge. 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: 3S: 2.0 to 5.8 (in H2O) 8S: 0.5 to 2.0 (in H2O)

According to the CAM plan submitted, the pressure gauges on the scrubbers shall be operated continuously during operation of the dryers.

[40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [3S, 8S]

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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

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 - 12-18-2012 (not operational since 2014), Fluid Bed Dryer tested - 08-02-2017.

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 #6 Fuel Oil used in last twelve month period (by weight)
SR = 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)
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?

Emission Unit Description			
Emission unit ID number: VIBFD5, ELEV4, CONV 39-41, BE01, BE02, LS01 CONV 29, CONV 30	Emission unit name: Screening and Unground Sand Processing	List any control devices associated with this emission unit: CF #6	
Provide a description of the emissi Screening and Unground Sand Proce	ion unit (type, method of operation, de essing	sign parameters, etc.):	
Manufacturer:	Model number:	Serial number:	
Donaldson	Torit DFT-4-48	NA	
Construction date:	Installation date:	Modification date(s):	
Pre-1975	Pre-1975	2012	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 150			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
150	1,314,000 TPY	8760 Hours/Year	
Fuel Usage Data (fill out all applic	able fields)		
Does this emission unit combust fu	iel? 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

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	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	Potentia	l Emissions
	РРН	TPY
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	РРН	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:

M emissions from Stack #6 shall not exhibit PM 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 R30-06500001-2014 (MM01 & MM02) *in 5.1.7.1.c. ensures compliance with 45CSR§7-4.1.*

Aplicable Requirements

List all applicable requirements for this emission unit. 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*). 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

Visible emissions from Stack #6 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; 45CSR§7-3.1.] *Compliance with the opacity limit in* 5.1.7.1.b. ensures compliance with 45CSR§7-3.1.

c. PM emissions from Stack #6 shall not exhibit PM 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

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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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1.[45CSR§30-5.1c]

5.2.5. Once a quarter (every three months), the permittee shall conduct 30 minute visible emission inspections using U.S. EPA Method 22 (Appendix A-7 of Part 60) of Stack #6. The Method 22 observations shall be conducted while the dust collector 1C (dust collector for Stack #6) is operating. Such monitoring is deemed satisfactory if no visible emissions are detected during the Method 22 observations. If any visible emissions are detected, then the permittee must initiate corrective actions within twenty–four hours of the observation to bring the dust collector to normal operation. The date and time of every Method 22 observation inspection shall be recorded in accordance with Condition 3.4.2. and in the logbook in accordance with 40 C.F.R. §60.676(b). These records shall include any corrective actions taken. The permittee may elect to establish a different satisfactory (success) level for the visible emission sobservations inspections by conducting PM performance test according to 40 C.F.R. §60.675(b) simultaneously with a Method 22 observation to determine what constitutes normal visible emissions from Stack #6 when it is in compliance with the PM limit of Condition 5.1.7.1.c. These revised visible emissions satisfactory (success) level must be incorporated into the Facility's Title V Operating Permit. **[45CSR13, R13-2145, 4.2.1; 40 C.F.R. §60.674(c); 45CSR16]**

Testing Requirements

5.3.1. 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]

5.3.2. For demonstrating initial compliance with the visible emission standards of 5.1.7.1.b. and 5.1.7.1.d., the permittee shall conduct performance testing to determine the visible emissions from the point and fugitive emission sources associated with Q-Rok loading at the facility, which includes Stack #6, Bucket Elevators (BE01 & BE02) and the associated load out spout. Such testing shall be conducted in accordance with Method 9 of Appendix A-4 of 40CFR 60, and the procedures in 40 C.F.R. §60.11. and Condition 3.3.1 of this permit and the following additions:

a. The minimum distance between the observer and the emission source shall be 15 feet. The observer shall, when possible, select a position that minimizes interference from other fugitive sources (e.g. road dust). The required observer position relative to the sun (Method 9 of Appendix A-4 of 40 CFR 60, Section 2.1.) must be followed.

b. The duration of the Method 9 observations for demonstrating compliance with the fugitive emission limit must be 30 minutes (five 6-minute averages). Compliance with the limit in 5.1.7.1.d. shall be based on the average of five 6-minute averages.

c. If a building/structure encloses the Bucket Elevators BE01 and BE02 and/or load out spout with the DSH system, the permittee shall conduct initial Method 9 observation of the building/structure to determine the compliance with fugitive emission limit of Condition 5.1.7.1.d. according to 40 C.F.R. 60 Subpart OOO and 40 C.F.R. §60.11. Such source must be operating while conducting the observations.

[40 C.F.R. §§60.675(c) and (d); 45CSR16; 45CSR13, R13-2145, 4.3.1.]

The permittee may use the following as alternatives to the reference methods and procedures listed in the above:

a a. If visible emissions from two or more facilities (affected sources) continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following

procedures may be used: i. Use for the combined emission stream the highest fugitive opacity standard application to any of the individual affected contributing to the emission stream.

a ii. Separate the emissions so that the opacity of emissions from each affected can be read.

b. A single visible emission observer may conduct visible emissions observations for up to three fugitive, stack, or vent emission points within a 15-second interval if the following conditions are met: i. No more than three emission points may be read concurrently.

ii. All three emission points must be within a 70 degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points.

iii. If an opacity reading for any one of the three emission points equals or exceeds the applicable standard, then the observer must stop taking readings for the other two points and continue reading just that single point.

c. The permittee may reduce the 30-day advance notification of performance test in 40 C.F.R. §§60.7(a)(6), 60.8(d) and 15-day notification of Condition 3.3.1.c. to a 7-day advance notification. [40 C.F.R. §§60.675(e) and (g); 45CSR16; 45CSR13, R13-2145, 4.3.1.]

5.3.3. For demonstrating initial compliance with the PM emission limit of 5.1.7.1.c., the permittee shall conduct performance testing to determine the PM concentration rate from Stack #6. Such testing shall be conducted using Method 5(Appendix A-3 of Part 60), Method 17 ((Appendix A-6) of Part 60), or Method 5I (Appendix A-3 of Part 60). If the exhaust velocity of Stack #6 is too low to measure accurately using the type S pilot tube as specified in EPA Method 2 (Appendix A-1 of Part 60), then the permittee may use the procedure outline in 40 C.F.R. §60.675(e)(4). [45CSR13, R13-2145, 4.3.2.]

5.3.4. The initial performance testing as required in this section (condition 5.3.2. through 5.3.4.) shall be conducted within 60 days after achieving the maximum production rate of 150 tons per hour through the load out with the DSH system, but no later than 180 days after initial start-up of the load out with the DSH system. [40 C.F.R. §§60.672(a) and (b); 45CSR16; 45CSR13, R13-2145, 4.3.3.]

5.3.5. The permittee shall repeat the performance testing as prescribed in Condition 5.3.2. for compliance with the fugitive emission standard of Condition 5.1.7.1.d. within 5 years from the previous performance test demonstrating compliance.

[40 C.F.R. §60.672(b) and Table 3 of 40 C.F.R. 60 Subpart OOO; 45CSR16; 45CSR13, R13-2145, 4.3.4.]

Recordkeeping Requirements

5.4.6 **Record of Maintenance of Air Pollution Control Equipment**. For all pollution control equipment listed in Section 1.0 of the current version of R13-2145, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures. [45CSR13, R13-2145, 4.4.2.] (CF #36, CF #6)

• 5.4.11. 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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.4.14. *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.4.15. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0 of the current version of R13-2145, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:

a. The equipment involved.

b. Steps taken to minimize emissions during the event.

c. The duration of the event.

d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

e. The cause of the malfunction.

f. Steps taken to correct the malfunction.

g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.

[40 C.F.R. §60.676(b)(1); 45CSR16; 45CSR13, R13-2145, 4.4.3.] (CF #36, CF #6)

Reporting Requirements

5.5.1. Reserved.

5.5.2. (a) *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.5.3. The Director shall be notified of the initial start-up of Bucket Elevators BE01 & BE02 and the load out spout with the DSH system within 15 days after such date. The notification of these sources can be included in a single notification and needs to include a description of each affected source, equipment manufacturer, and serial number of the equipment if available. This notification supersedes the notification requirements of Condition 2.18. of the current version of R13-2145.

[45CSR13, R13-2145, 4.5.1.; 40 C.F.R. §§60.676(i)(1) and (k); 45CSR16]

5.5.4. The permittee shall report the results of any test conducted as required in conditions 5.3.2., 5.3.3., 5.3.4., and 5.3.5. of this permit to the Director within 60 days after completing such testing. [45CSR13, R13-2145, 4.5.2.; 40 C.F.R. §§60.676(f) and (k); 45CSR16]

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

Emission Unit Description			
Emission unit ID number: SCREN 4, SCREN 10-13, SCREN 22-23, ELEV1, ELEV2, ELEV3, CONV 31 AND CONV33	Emission unit name: Screening and Unground Sand Processing	List any control de with this emission CF #7	evices associated unit:
Provide a description of the emiss Screening and Unground Sand Proc	ion unit (type, method of operation, de essing	esign parameters, etc.):	:
Manufacturer:	Model number:	Serial number:	
Donaldson	Torit DFT-4-32-SH	NA	
Construction date:	Installation date:	Modification date(s):	
Pre-1975	Pre-1975	NA	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 200			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
200	1,750,000 TPY	8760 Hours/Year	
Fuel Usage Data (fill out all applic	able fields)		
Does this emission unit combust fuel? NoIf 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
<u> </u>			
	1		

Emissions Data		
Criteria Pollutants	Potentia	al Emissions
	РРН	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	
	РРН	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, 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 <u>construction permit</u> 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

6.1.2. The following Non-NSPS Fabric Filter pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the filters to attain the required minimum particulate removal efficiency. Filter pressure

drop shall be monitored at least once per day. The monitoring device is to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the filter pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the filter and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

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, 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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1. [45CSR§30-5.1c]

Testing Requirements

NA [R30-06500001-2014 (MM01 & MM02) sections 6.3.]

Recordkeeping Requirements

Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2014 (MM01 & MM02) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2014 (MM01 & MM02) 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 R30-06500001-2014 (MM01 & MM02) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(3) 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.

(4) 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:

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

(v) 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

(vi) 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?
Emission Unit Description			
Emission unit ID number: DRYER2 (8S)	Emission unit name: Wet Float Plant	List any control of with this emission WSc #8	levices associated 1 unit:
Provide a description of the emiss Rotary Dryer (8S), Stack #8	ion unit (type, method of operation, do	esign parameters, etc.):
Manufacturer: In House	Model number: NA	Serial number:	
Construction date:	Installation date:	Modification date	e(s):
Pre-1970	Pre-1970	NA	
Design Capacity (examples: furna 100	ices - tons/hr, tanks - gallons):		
Maximum Hourly Throughput: 100	Maximum Annual Throughput: 876,000 TPY	Maximum Opera	ting Schedule:
Fuel Usage Data (fill out all applie	cable fields)		
Does this emission unit combust f	uel?	If yes, is it? propane, #2 Fuel C #5 Fuel Oil, #6 Fu and Recycled Fuel	Dil, #4 Fuel Oil, el Oil, natural gas Oil
Maximum design heat input and/ 17.1 MMBtu/hr	or maximum horsepower rating:	Type and Btu/hr burners: 17,000,000 Btu/hi	rating of
List the primary fuel type(s) and i the maximum hourly and annual	f applicable, the secondary fuel type(s fuel usage for each.). For each fuel type l	isted, provide
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	150,000 BTU/gal
Distillate Oils	1.2 %	negligible	150,000 BTU/gal
Residual Oils	1.5 %	0.05-0.1	140,000 BTU/gal

Emissions Data		
Criteria Pollutants	Potential	Emissions
	PPH	ТРҮ
Carbon Monoxide (CO)	0.62	13.75
Nitrogen Oxides (NO _X)	3.7	96.35
Lead (Pb)	negligible	negligible
Particulate Matter (PM _{2.5})	9.0	95.48
Particulate Matter (PM ₁₀)	9.0	95.48
Total Particulate Matter (TSP)	9.0	95.48
Sulfur Dioxide (SO ₂)	26.3	267.0
Volatile Organic Compounds (VOC)	0.06	1.27
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
All	Insignificant	Insignificant
Regulated Pollutants other than	Potential	Emissions
Criteria and HAP	РРН	ТРҮ
List the method(s) used to calculate the p versions of software used, source and dat <u>Notes:</u>	potential emissions (include dates tes of emission factors, etc.).	s of any stack tests conducted,

List all applicable requirements for this emission unit. 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*). 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: c. 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

d. 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: xi.Date of shipment or delivery xii.Quantity received xiii.Arsenic content xiv.Cadmium content xvv.Chromium content xvi.Lead content xvii.PCB content xviii.Total Halogen content xix.Flash point xx.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 representative, 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]

The following scrubber pressure drop ranges obtained from stack test and historical data are 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. The monitoring device is to be certified to be accurate within \cdot 0.1 inch

water gauge. 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: 3S: 2.0 to 5.8 (in H2O) 8S: 0.5 to 2.0 (in H2O)

According to the CAM plan submitted, the pressure gauges on the scrubbers shall be operated continuously during operation of the dryers.

[40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [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 - 12-18-2012 (not operational since 2014), Fluid Bed Dryer tested - 08-02-2017.

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 #6 Fuel Oil used in last twelve month period (by weight)
SR = 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)
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.

(3) 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.

(4) 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?

Emission Unit Description			
Emission unit ID number: SCREN17 AND SCREN18	Emission unit name: Screening and Unground Sand Processing	List any control d with this emission CF #7 and CF #9	evices associated unit:
Provide a description of the emiss Screening and Unground Sand Proc	ion unit (type, method of operation, de essing at the Wet Float Plant and the Nev	esign parameters, etc.) w Screen Tower	:
Manufacturer:	Model number:	Serial number:	
#7: Donaldson	#7: Torit DFT-4-32-SH	NA	
#9: Donaldson	#9: 4DF32-155		
Construction date:	Installation date:	Modification date	(s):
#7: Pre-1975	#7: Pre-1975	NA	
#9:	#9:		
Design Capacity (examples: furna 50	ces - tons/hr, tanks - gallons):		
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operat	ing Schedule:
50	438,000 TPY per screen	8760 Hours/Year	
Fuel Usage Data (fill out all applied	able fields)		
Does this emission unit combust for	uel? No	If yes, is it?	
Maximum design heat input and/o	or maximum horsepower rating:	Type and Btu/hr n burners:	rating of
List the primary fuel type(s) and i the maximum hourly and annual	f applicable, the secondary fuel type(s fuel usage for each.). For each fuel type li	sted, provide
Describe each fuel expected to be	used during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data STACK #7		
Criteria Pollutants	Potential Emissions	
	PPH	ТРҮ
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	4.1	18.2
Particulate Matter (PM ₁₀)	4.1	18.2
Total Particulate Matter (TSP)	4.1	18.2
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potenti	al Emissions
	PPH	ТРҮ
None		
Regulated Pollutants other than	Potenti	al Emissions
Criteria and HAP	PPH	ТРҮ

Notes:

(1) 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 for the #9 dust collector and 22,000 cfm for the #7 dust collector.

(2) Based on 8,760 hours of operation per year.
(3) Stack #7 limitations listed above apply at times when #1 Rotex Screen (1s) is in operation.

Emissions Data STACK #9		
Criteria Pollutants	Potent	ial Emissions
	PPH	ТРҮ
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	ТРҮ
None		
Regulated Pollutants other than	Potent	ial Emissions
Criteria and HAP	PPH	TPY

Notes:

(1) 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 for the #9 dust collector and 22,000 cfm for the #7 dust collector.

(2) Based on 8,760 hours of operation per year.

(3) Stack #7 limitations listed above apply at times when #1 Rotex Screen (1s) is in operation.

Applicable Requirements

List all applicable requirements for this emission unit. 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*). 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

5.1.8.1. 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]

5.1.8.2 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]

5.1.8.3. The permittee shall operate the air pollution control device, the #9 Torit Cartridge Model No. 4DF32-155 Dust Collector (Emission Point ID No. Stack #9), for the #2 Rotex Screen (2S) as outlined in Permit Application R13-2423. **[45CSR13, R13-2423, A.3] [Stack #9]**

5.1.8.4. In accordance with the requirements of 40 CFR 60, Subpart OOO, the maximum particulate (PM) emissions from the air pollution control devices, the #9 Torit Model No. 4DF32-155 Pulse Type Cartridge Dust Collector (Emission Point ID No. Stack #9) for the #2 Rotex Screen (2S) and the #7 Torit Cartridge Model No. DFT4-32 Dust Collector (Emission Point ID No. Stack #7) for the #1 Rotex Screen (1S) shall not exceed 0.022 grains per dry standard cubic foot (0.05 grams per dry standard meter).

[45CSR13, R13-2423, A.4, A.5; 40 C.F.R. § 60.672; 45CSR16] [Stack # 9 and Stack #7]

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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1. [45CSR§30-5.1c]

Testing Requirements

NA [R30-06500001-2014 (MM01 & MM02) sections 6.3.]

Recordkeeping Requirements

5.4.1. For the purpose of determining compliance with the process rate limitation set forth in 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]

• 5.4.11. 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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.4.14. *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Reporting Requirements

Reporting will be conducted as specified in facility-wide requirements R30-06500001-2014 (MM01 & MM02)

sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(5) 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.

(6) 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:

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

(viii)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

(ix) 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?

Emission Unit Description			
Emission unit ID number: ELEV 19, ELEV 20, AND PACKR8	Emission unit name: Wet Float Plant	List any control d with this emission CF #9	evices associated unit:
Provide a description of the emiss Wet Float Plant	ion unit (type, method of operation, de	esign parameters, etc.)):
Manufacturer:	Model number:	Serial number:	
Donaldson	Torit 4DF-32-155	NA	
Construction date:	Installation date:	Modification date	(s):
Pre-1970	Pre-1970	NA	
Design Capacity (examples: furna 30	aces - tons/hr, tanks - gallons):		
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operat	ting Schedule:
30	262,800	8760 Hours/Year	
Fuel Usage Data (fill out all applied	cable fields)		
Does this emission unit combust f	uel? No	If yes, is it?	
Maximum design heat input and/	or maximum horsepower rating:	Type and Btu/hr i burners:	rating of
List the primary fuel type(s) and i the maximum hourly and annual	if applicable, the secondary fuel type(s) fuel usage for each.). For each fuel type li	sted, provide
Describe each fuel expected to be	used during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data			
Criteria Pollutants	Potential Emissions		
	РРН	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		
	РРН	TPY	
None			
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP	РРН	TPY	

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 <u>construction permit</u> 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

5.1.9.1. 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]

5.1.9.2. 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]

5.1.9.3. 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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1. [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 R30-06500001-2014 (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 #9 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]

• 5.4.11. 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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.4.14. *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Reporting Requirements

5.5.2. (a) *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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

Emission Unit Description			
Emission unit ID number: SCREW3, SCREW4, #1 and #2 MILL FEED BINS, SCREW6, MILL 2, MILL 3, AJRSD7, ELEV6, ELVE7, FEEDB1 AND FEEDB2	Emission unit name: Milling Process	List any control d with this emission CF #10	levices associated a unit:
Provide a description of the emiss Milling Process (Stack #10, 11, 12 of	ion unit (type, method of operation, d &39)	esign parameters, etc.):
Manufacturer:	Model number:	Serial number:	
Micropul	CFH 40T-20-B	NA	
Construction date:	Installation date:	Modification date	e(s):
1981	1981	NA	
Design Capacity (examples: furna 20	nces - tons/hr, tanks - gallons):		
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Opera	ting Schedule:
20	175,200 TPY	8760 Hours/Year	
Fuel Usage Data (fill out all applied	cable fields)		
Does this emission unit combust f	uel? No	If yes, is it?	
Maximum design heat input and/	or maximum horsepower rating:	Type and Btu/hr burners:	rating of
List the primary fuel type(s) and i the maximum hourly and annual	if applicable, the secondary fuel type(s fuel usage for each.	s). For each fuel type l	isted, provide
Describe each fuel expected to be	used during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	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	Potentia	ll Emissions
	РРН	TPY
None		
Regulated Pollutants other than	Potentia	ll Emissions
Criteria and HAP	РРН	TPY

Notes:

Allowable PM Stack Emissions (Type 'a' Source Operation) [45CSR§7-4.1] [Stacks 1, 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 <u>construction permit</u> 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

6.1.2. The following Non-NSPS Fabric Filter pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the filters to attain the required minimum particulate removal efficiency. Filter pressure

drop shall be monitored at least once per day. The monitoring device is to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the filter pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the filter and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

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, 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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1. [45CSR§30-5.1c]

Testing Requirements

NA [R30-06500001-2014 (MM01 & MM02) sections 6.3.]

Recordkeeping Requirements

Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2014 (MM01 & MM02) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2014 (MM01 & MM02) 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 R30-06500001-2014 (MM01 & MM02) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(7) 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.

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

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

(xi) 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

(xii) 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?

Emission Unit Description			
Emission unit ID number: SCREW4(3-4 SCREW CONVEYOR), #3 MILL FEED BIN, # 4 MILL FEED BIN, SCREW7, AIRSD8, PNEU4, ELEV8, ELEV9, FEEDB3, FEEDB4, ELEV16, MILL 4, MILL 5, AND AIRSD13	Emission unit name: Milling Process	List any control devices associated with this emission unit: CF #11	
Provide a description of the emissi Milling Process	ion unit (type, method of operation, desi	gn parameters, etc.):	
Manufacturer:	Model number:	Serial number:	
Donaldson	Torit DFT 4-48	NA	
Construction date:	Installation date:	Modification date(s):	
1981	1981	NA	
Design Capacity (examples: furna 20	ces - tons/hr, tanks - gallons):		
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
20	175,200 TPY	8760 Hours/Year	
<i>Fuel Usage Data</i> (fill out all applic	able fields)		
Does this emission unit combust fu	iel? No	If yes, is it?	
Maximum design heat input and/or maximum horsepower rating: Type and Btu/hr rating of burners:		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	

Emissions Data			
Criteria Pollutants	Potentia	Potential Emissions	
	РРН	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	Potentia	al Emissions	
	РРН	TPY	
None			
Regulated Pollutants other than	Potentia	al Emissions	
Criteria and HAP	РРН	TPY	

Notes:

Allowable PM Stack Emissions (Type 'a' Source Operation) [45CSR§7-4.1] [Stacks 1, 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 <u>construction permit</u> 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

6.1.2. The following Non-NSPS Fabric Filter pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the filters to attain the required minimum particulate removal efficiency. Filter pressure

drop shall be monitored at least once per day. The monitoring device is to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the filter pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the filter and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

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, 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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1. [45CSR§30-5.1c]

Testing Requirements

NA [R30-06500001-2014 (MM01 & MM02) sections 6.3.]

Recordkeeping Requirements

Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2014 (MM01 & MM02) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2014 (MM01 & MM02) 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 R30-06500001-2014 (MM01 & MM02) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(9) 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.

(10)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:

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

(xiv)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

(xv) 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?

Emission Unit Description				
Emission unit ID number: #5 MILL FEED BIN, FEEDB5, MILL6, ELEV10, #6 MILL FEED BIN, FEEDB6. AIRSD3, ELEV11, ELEV 15, PNEU2, BIN2, BIN7, MILL7, #1 AND #2 PUMPS, AIRSL 12, TAILING BINS	Emission unit name: Milling Process	List any control devices associat with this emission unit: CF #12	ed	
Provide a description of the emissi Milling Process and Classification (1	on unit (type, method of operation, desi 10/15/30/40 Micron)	gn parameters, etc.):		
Manufacturer:	Model number:	Serial number:		
Micropul	CFH-40T-20B	NA		
Construction date:	Installation date:	Modification date(s):		
1981	1981	NA		
Design Capacity (examples: furna 20	Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 20			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:		
20	175,200 TPY	8760 Hours/Year		
<i>Fuel Usage Data</i> (fill out all applic	able fields)			
Does this emission unit combust fu	iel? No	If yes, is it?		
Maximum design heat input and/o	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 u	used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	;	

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	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	
	РРН	TPY
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	РРН	TPY

Notes:

Allowable PM Stack Emissions (Type 'a' Source Operation) [45CSR§7-4.1] [Stacks 1, 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 <u>construction permit</u> 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

6.1.2. The following Non-NSPS Fabric Filter pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the filters to attain the required minimum particulate removal efficiency. Filter pressure

drop shall be monitored at least once per day. The monitoring device is to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the filter pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the filter and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

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, 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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1. [45CSR§30-5.1c]

Testing Requirements

NA [R30-06500001-2014 (MM01 & MM02) sections 6.3.]

Recordkeeping Requirements

Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2014 (MM01 & MM02) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2014 (MM01 & MM02) 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 R30-06500001-2014 (MM01 & MM02) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(11) 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.

(12) 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:

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

(xvii) 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

(xviii) 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?

Emission Unit Description			
Emission unit ID number: ELEV23, CGS Tank, PEMCO Tank, SPOUT6	Emission unit name: 5 Micron Classification	List any control de with this emission of CF #13	vices associated unit:
Provide a description of the emiss 5 Micron Classification	ion unit (type, method of operation, d	esign parameters, etc.):	
Manufacturer:	Model number:	Serial number:	
Donaldson	Torit DF-T3-24	NA	
Construction date:	Installation date:	Modification date(s):
1998	1998	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	
<i>Fuel Usage Data</i> (fill out all applied	cable fields)		
Does this emission unit combust f	uel? 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 i the maximum hourly and annual	if applicable, the secondary fuel type(s fuel usage for each.). For each fuel type lis	ted, provide
Describe each fuel expected to be	used during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	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	
	РРН	TPY
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	РРН	TPY

Notes:

Allowable PM Stack Emissions (Type 'a' Source Operation) [45CSR§7-4.1] [Stacks 1, 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 <u>construction permit</u> 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

6.1.2. The following Non-NSPS Fabric Filter pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the filters to attain the required minimum particulate removal efficiency. Filter pressure

drop shall be monitored at least once per day. The monitoring device is to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the filter pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the filter and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

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, 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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1. [45CSR§30-5.1c]

Testing Requirements

NA [R30-06500001-2014 (MM01 & MM02) sections 6.3.]

Recordkeeping Requirements

Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2014 (MM01 & MM02) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2014 (MM01 & MM02) 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 R30-06500001-2014 (MM01 & MM02) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(13) 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.

A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. (14)§70.6(a)(3)(iii) of this chapter and the following information, as applicable:

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

(xx) 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

(xxi)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?

Emission Unit Description			
Emission unit ID number: PACKR3 and PACKR4	Emission unit name: 5 Micron Classification	List any control d with this emission CF #20	evices associated unit:
Provide a description of the emiss 5 Micron Classification	ion unit (type, method of operation, de	esign parameters, etc.)	:
Manufacturer:	Model number:	Serial number:	
Donaldson	Torit DF-T4-32	NA	
Construction date:	Installation date:	Modification date	(s):
1981	1981	NA	
Design Capacity (examples: furna 20	aces - tons/hr, tanks - gallons):		
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
20	175,200 TPY	8760 Hours/Year	
Fuel Usage Data (fill out all applied	cable fields)		
Does this emission unit combust f	uel? 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 i the maximum hourly and annual	if applicable, the secondary fuel type(s fuel usage for each.). For each fuel type li	sted, provide
Describe each fuel expected to be	used during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potentia	al Emissions
	РРН	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	Potentia	al Emissions
	РРН	TPY
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	РРН	TPY

Notes:

Allowable PM Stack Emissions (Type 'a' Source Operation) [45CSR§7-4.1] [Stacks 1, 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 <u>construction permit</u> 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

6.1.2. The following Non-NSPS Fabric Filter pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the filters to attain the required minimum particulate removal efficiency. Filter pressure drop shall be monitored at least once per day. The monitoring device is to be certified to be accurate within \cdot 0.1 inch

water gauge. An excursion shall be defined as when the filter pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the filter and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

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, 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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1. [45CSR§30-5.1c]

Testing Requirements

NA [R30-06500001-2014 (MM01 & MM02) sections 6.3.]

Recordkeeping Requirements

Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2014 (MM01 & MM02) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2014 (MM01 & MM02) 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 R30-06500001-2014 (MM01 & MM02) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(15) 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.

A report for monitoring under this part shall include, at a minimum, the information required under 40 C.F.R. (16)§70.6(a)(3)(iii) of this chapter and the following information, as applicable:

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

(xxiii) 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

(xxiv) 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?
Emission Unit Description			
Emission unit ID number: CONV25, SCREN16, CONV26, and CONV27	Emission unit name: Screening and Unground Sand Processing	List any control d with this emission CF #25	evices associated unit:
Provide a description of the emiss Screening and Unground Sand Pr	ion unit (type, method of operation, do ocessing/ Trash Screen at Fluid Bed L	esign parameters, etc.) Dryer):
Manufacturer:	Model number:	Serial number:	
Donaldson	Torit DF-4DF-48	NA	
Construction date:	Installation date:	Modification date	(s):
1975	1975	NA	
Design Capacity (examples: furna 220	ces - tons/hr, tanks - gallons):		
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Opera	ting Schedule:
220	1,927,200 TPY	8760 Hours/Year	
Fuel Usage Data (fill out all applic	cable fields)		
Does this emission unit combust for	uel? No	If yes, is it?	
Maximum design heat input and/o	or maximum horsepower rating:	Type and Btu/hr burners:	rating of
List the primary fuel type(s) and i the maximum hourly and annual	f applicable, the secondary fuel type(s fuel usage for each.). For each fuel type li	isted, provide
Describe each fuel expected to be	used during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potent	tial Emissions
	РРН	ТРҮ
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	Potent	tial Emissions
	РРН	ТРҮ
None		
Regulated Pollutants other than	Potent	tial Emissions
Criteria and HAP	РРН	ТРҮ

Notes:

PM emissions from Stack #25 are based on PM not 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; 45CSR§7-4.1.] Compliance with the concentration limit in R30-06500001-2014 (MM01 & MM02) 5.1.6.2.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 <u>construction permit</u> 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

5.1.6.2. 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]

5.1.6.3. 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]

5.1.6.4. 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]

5.1.6.5. 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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1.[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 #6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 &42]

Testing Requirements

The owner or operator shall determine compliance with the particulate matter standards in R30-06500001-2014 (MM01 & MM02) 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

5.4.7. For the purpose of determining compliance with the emission limits as set forth in Sections 5.1.6.1 and 5.1.6.2, the permittee shall maintain all records that are required herein. Said records shall be maintained on site for a period of five (5) years and shall be made available to the Director or his/her duly authorized representative upon request. [45CSR13, R13-2015, B.1] [Stack # 25]

5.4.8. For the purpose of determining compliance with the process weight rate limitations set forth in Section 5.1.6.3 the permittee shall maintain monthly and annual records on the processing rate of sand to the Trash Vibrating Screen. Compliance with the monthly and annual process weight rate limits shall be determined using a rolling yearly total. A rolling yearly total shall mean the sum of the process weight rate at any given time for the previous twelve (12) consecutive months. Said records shall be maintained on site for a period of five (5) years. Certified copies of said records shall be maintained on site for a period of five (5) years. The monthly and annual sand processing records may be maintained using the U.S.Silica Company computerized Production Tracking Data System (PTDS)

[45CSR13, R13-2015, B.2] [SCREN16]

5.4.9. For the purpose of determining compliance with the conditions set forth in Section 5.1.6.4, the permittee shall maintain certified annual records that contain at a minimum the following:

Hours of Operation when the Trash Vibrating Screen is operating without the required control device (Cartridge Filter). Said 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/her duly authorized representative upon request.

[45CSR13, R13-2015, B.3] [CF#25]

5.4.10. For the purpose of determining compliance with the conditions set forth in Section 5.1.6.5, the permittee shall meet the following requirements for the control device CF#25:

a. Maintenance 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.

b. 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 minimum, the following information shall be documented for each malfunction:

1. The cause of malfunction

2. Steps taken to:

- correct the malfunction

- minimize emissions during malfunction

3. The duration of the malfunction in hours.

4. The estimated increase in emissions during the malfunction.

5. Any changes/modifications made to equipment and/or procedures that will help prevent future recurrence of the malfunction.

[45CSR13, R13-2015, B.4] [CF#25]

• 5.4.11. 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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.4.14. *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Reporting Requirements

5.5.1. Reserved.

5.5.2. (a) *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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

Emission Unit Description				
Emission unit ID number: CONV51, PULVERIZER TANK #19, PULVERIZER TANK #20, TANKS #9-#12 VENTS AND LOADOUTS, STEEL TANK #21 VENT AND LOADOUT, SPOUTS 1 AND 2	Emission unit name: Milling Process	List any control de with this emission CF #27	vices associated unit:	
Provide a description of the emiss Milling Process/ Screening and Ung	ion unit (type, method of operation, des round Sand Processing	sign parameters, etc.)	:	
Manufacturer:	Model number:	Serial number:	Serial number:	
Donaldson	Torit DF-T48	NA		
Construction date:	Installation date:	Modification date((s):	
1981	1981	NA		
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 20				
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operat	ing Schedule:	
20	175,200 TPY	8760 Hours/Year		
Fuel Usage Data (fill out all applic	able fields)	1		
Does this emission unit combust fu	iel? No	If yes, is it?		
Maximum design heat input and/o	or maximum horsepower rating:	Type and Btu/hr r burners:	ating of	
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	

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	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	Potentia	al Emissions
	РРН	TPY
None		
Regulated Pollutants other than	Potentia	al Emissions
Criteria and HAP	РРН	TPY

Notes:

Allowable PM Stack Emissions (Type 'a' Source Operation) [45CSR§7-4.1] [Stacks 1, 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 <u>construction permit</u> 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

6.1.2. The following Non-NSPS Fabric Filter pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the filters to attain the required minimum particulate removal efficiency. Filter pressure

drop shall be monitored at least once per day. The monitoring device is to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the filter pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the filter and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

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, 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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1. [45CSR§30-5.1c]

Testing Requirements

NA [R30-06500001-2014 (MM01 & MM02) sections 6.3.]

Recordkeeping Requirements

Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2014 (MM01 & MM02) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2014 (MM01 & MM02) 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 R30-06500001-2014 (MM01 & MM02) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(17) 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.

(18) 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:

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

(xxvi) 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

(xxvii) 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?

Emission Unit Description			
Emission unit ID number: Storage Silos #6, #7, #8 (E1), SPOUT5,	Emission unit name: Storage Structures	List any control do with this emission CF #28	evices associated unit:
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Silica Sand Storage Silos			
Manufacturer:	Model number:	Serial number:	
Donaldson	Torit DF-2D-F4	NA	
Construction date:	Installation date:	Modification date	(s):
1984	1984	1999	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 100			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operat	ing Schedule:
100 TPH	876000 TPY	8760 Hours/Year	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fu	uel? No	If yes, is it?	
Maximum design heat input and/o	or maximum horsepower rating:	Type and Btu/hr r burners:	ating of
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

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	ТРҮ
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	Potenti	al Emissions
	РРН	ТРҮ
None		
Regulated Pollutants other than	Potenti	al Emissions
Criteria and HAP	РРН	ТРҮ

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 <u>construction permit</u> 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

5.1.2. The following emission limits shall not be exceeded: Storage Silo #6: 0.05 PPH **[45CSR13, R13-750] [Stacks 28, 29 &33]**

5.1.5. Particulate matter (PM) emissions shall not exceed the following hourly and annual emission limits: Stack #28: 0.70 PPH and 0.07 TPY

[45CSR13, R13-1970, A.1] [Stack # 28]

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

5.2.1. Visible Emissions evaluations will be conducted as specified in Facility-wide requirements 3.2.1. [45CSR\$30-5.1c]

5.1.11. The following cartridge filter or baghouse pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the cartridge filter or baghouse to attain the required minimum particulate removal efficiency. Cartridge filter or baghouse pressure drop shall be monitored at least once per day. The monitoring device is

to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the Cartridge filter

or baghouse pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the cartridge filter or baghouse and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

According to the CAM plan submitted, the differential pressure gauges for the cartridge filter or baghouse shall be operated continuously during operation of the emission units.

[40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stack # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Testing Requirements

5.3.1. 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

• 5.4.11. 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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.4.14. *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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]

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

Reporting Requirements 5.5.1. Reserved.

5.5.2. (a) *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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

Emission Unit Description			
Emission unit ID number: Minusil Storage Silos #5 (5e)	Emission unit name: Storage Structures	List any control d with this emission CF #29	evices associated unit:
Provide a description of the emiss Silica sand storage silos (Stacks # 2	ion unit (type, method of operation, de 8, 29 & 33)	sign parameters, etc.)	:
Manufacturer:	Model number:	Serial number:	
Micropul	CFH-18-20-VB	NA	
Construction date:	Installation date:	Modification date	(s):
1984	1984	NA	
Design Capacity (examples: furna 125	aces - tons/hr, tanks - gallons):		
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operat	ing Schedule:
125 TPH	1095000 TPY	8760 Hours/Year	
Fuel Usage Data (fill out all applied	cable fields)		
Does this emission unit combust f	uel? No	If yes, is it?	
Maximum design heat input and/	or maximum horsepower rating:	Type and Btu/hr i burners:	rating of
List the primary fuel type(s) and i the maximum hourly and annual	f applicable, the secondary fuel type(s) fuel usage for each.). For each fuel type li	sted, provide
Describe each fuel expected to be	used during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
<u> </u>			<u> </u>

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	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	Poter	ntial Emissions
	РРН	TPY
None		
Regulated Pollutants other than	Poter	ntial Emissions
Criteria and HAP	РРН	TPY

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.

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 <u>construction permit</u> 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

5.1.2. The following emission limits shall not be exceeded: Storage Silo #5: 0.05 PPH [45CSR13, R13-750] [Stacks 28, 29 &33]

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

5.2.1. Visible Emissions evaluations will be conducted as specified in Facility-wide requirements 3.2.1. [45CSR§30-5.1c]

5.1.11. The following cartridge filter or baghouse pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the cartridge filter or baghouse to attain the required minimum particulate removal efficiency. Cartridge filter or baghouse pressure drop shall be monitored at least once per day. The monitoring device is

to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the Cartridge filter

or baghouse pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the cartridge filter or baghouse and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

According to the CAM plan submitted, the differential pressure gauges for the cartridge filter or baghouse shall be operated continuously during operation of the emission units.

[40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stack # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Testing Requirements

5.3.1. 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]**

• 5.4.11. 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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.4.14. *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Reporting Requirements

5.5.1. Reserved.

5.5.2. (a) *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.

(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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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

Emission Unit Description			
Emission unit ID number: Supersil storage silos #1 - #4 (1e- 4e)	Emission unit name: Storage Structures	List any control d with this emission CF #33	evices associated unit:
Provide a description of the emiss Silica sand storage silos (Stacks # 2	ion unit (type, method of operation, de 8, 29 & 33)	sign parameters, etc.):
Manufacturer:	Model number:	Serial number:	
Donaldson	Torit DF-T4-16	NA	
Construction date:	Installation date:	Modification date	e(s):
1984	1984	NA	
Design Capacity (examples: furna 125	aces - tons/hr, tanks - gallons):		
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Opera	ting Schedule:
125 TPH	1095000 TPY	8760 Hours/Year	
Fuel Usage Data (fill out all applied	cable fields)		
Does this emission unit combust f	uel? No	If yes, is it?	
Maximum design heat input and/	or maximum horsepower rating:	Type and Btu/hr burners:	rating of
List the primary fuel type(s) and i the maximum hourly and annual	if applicable, the secondary fuel type(s) fuel usage for each.). For each fuel type li	isted, provide
Describe each fuel expected to be	used during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	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	Potentia	al Emissions
	РРН	TPY
None		
Regulated Pollutants other than	Potentia	al Emissions
Criteria and HAP	РРН	TPY

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 <u>construction permit</u> 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

5.1.2. The following emission limits shall not be exceeded : Stack #33: 0.2 PPH

5.1.11. The following cartridge filter or baghouse pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the cartridge filter or baghouse to attain the required minimum particulate removal efficiency. Cartridge filter or baghouse pressure drop shall be monitored at least once per day. The monitoring device is to be certified to be accurate within 0.1 inch water gauge. An excursion shall be defined as when the Cartridge filter or baghouse pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the cartridge filter or baghouse and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

According to the CAM plan submitted, the differential pressure gauges for the cartridge filter or baghouse shall be operated continuously during operation of the emission units. [40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stack # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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

5.2.1. Visible Emissions evaluations will be conducted as specified in Facility-wide requirements 3.2.1. [45CSR\$30-5.1c]

5.1.11. The following cartridge filter or baghouse pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the cartridge filter or baghouse to attain the required minimum particulate removal efficiency. Cartridge filter or baghouse pressure drop shall be monitored at least once per day. The monitoring device is

to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the Cartridge filter

or baghouse pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the cartridge filter or baghouse and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

According to the CAM plan submitted, the differential pressure gauges for the cartridge filter or baghouse shall be operated continuously during operation of the emission units.

[40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stack # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Testing Requirements

5.3.1. 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

• 5.4.11. 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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.4.14. *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Reporting Requirements 5.5.1. Reserved.

5.5.2. (a) *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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

Emission Unit Description			
Emission unit ID number: PACKR5 (1e & 2e), SPOUT3	Emission unit name: 5 Micron Classification	List any control de with this emission CF #34	vices associated unit:
Provide a description of the emiss Bulk bagging operation at ground sa	ion unit (type, method of operation, des and packaging	sign parameters, etc.):	:
Manufacturer:	Model number:	Serial number:	
Donaldson	Torit DF-2DF-4	NA	
Construction date:	Installation date:	Modification date(s):
1988	1988	NA	
Design Capacity (examples: furna 15	ces - tons/hr, tanks - gallons):		
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operati	ing Schedule:
10	87,600 TPY	8760 Hours/Year	
Fuel Usage Data (fill out all applied	cable fields)		
Does this emission unit combust f	uel? No	If yes, is it?	
Maximum design heat input and/	or maximum horsepower rating:	Type and Btu/hr raburners:	ating of
List the primary fuel type(s) and i the maximum hourly and annual	f applicable, the secondary fuel type(s). fuel usage for each.	For each fuel type lis	sted, provide
Describe each fuel expected to be	used during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

ns TPY 0.44 0.44
TPY 0.44 0.44
 0.44 0.44
 0.44 0.44
0.44
0.44
0.44
0.44
ns
TPY
ns
TPY
tack tests conducted,

List all applicable requirements for this emission unit. 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*). 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

5.1.3.1. 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]

5.1.3.2. 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]

5.1.3.3. 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

5.2.1. Visible Emissions evaluations will be conducted as specified in Facility-wide requirements 3.2.1. [45CSR\$30-5.1c]

5.1.11. The following cartridge filter or baghouse pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the cartridge filter or baghouse to attain the required minimum particulate removal efficiency. Cartridge filter or baghouse pressure drop shall be monitored at least once per day. The monitoring device is

to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the Cartridge filter or baghouse pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the cartridge filter or baghouse and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

According to the CAM plan submitted, the differential pressure gauges for the cartridge filter or baghouse shall be operated continuously during operation of the emission units.

[40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stack # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Testing Requirements

5.3.1. 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

• 5.4.11. 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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.4.14. *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Reporting Requirements

5.5.1. Reserved.

5.5.2. (a) *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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

Emission Unit Description				
Emission unit ID number: SCREN 7-9 and 14-15 (1E)	Emission unit name: Screening and Unground Sand Processing	List any control d with this emission CF #36	evices associated unit:	
Provide a description of the emiss Five Rotex screens at New Screen T	ion unit (type, method of operation, d Tower	esign parameters, etc.)	:	
Manufacturer:	Model number:	Serial number:		
Donaldson	Torit DF-T2-8	NA		
Construction date:	Installation date:	Modification date	Modification date(s):	
1995	1995	1997		
Design Capacity (examples: furna 375	ices - tons/hr, tanks - gallons):			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operat	Maximum Operating Schedule:	
375	3,285,000 TPY	8760 Hours/Year		
Fuel Usage Data (fill out all applied	cable fields)			
Does this emission unit combust f	uel? 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 i the maximum hourly and annual	if applicable, the secondary fuel type(s fuel usage for each.	s). For each fuel type li	sted, provide	
Describe each fuel expected to be	used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.14 gr/dscf exhaust	
Particulate Matter (PM ₁₀)	0.14 gr/dscf exhaust	
Total Particulate Matter (TSP)	0.14 gr/dscf exhaust	
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	РРН	TPY
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	РРН	TPY
List the method(s) used to calculate	the potential emissions (include date	es of any stack tests conducted,

Notes:

PM emissions from Stack #36 are based on PM not greater than 0.14 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.]

Applicable Requirements

List all applicable requirements for this emission unit. 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*). 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

5.1.7.2 The following conditions and requirements are specific to the five Rotex Screens:a. The combined annual processing rate of the five Rotex Screens shall not exceed 3,285,000 tons of sand per year.

b. 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.

c. 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]

d. 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)

5.1.7.3 **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 of R13-2145C (*i.e.*, CF #36 and CF #6) and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.

[45CSR13, R13-2145, 4.1.3.; 45CSR§13-5.11.]

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

5.2.1. Visible Emissions evaluations will be conducted as specified in Facility-wide requirements 3.2.1. [45CSR\$30-5.1c]

5.1.11. The following cartridge filter or baghouse pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the cartridge filter or baghouse to attain the required minimum particulate removal efficiency. Cartridge filter or baghouse pressure drop shall be monitored at least once per day. The monitoring device is

to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the Cartridge filter

or baghouse pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the cartridge filter or baghouse and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

According to the CAM plan submitted, the differential pressure gauges for the cartridge filter or baghouse shall be operated continuously during operation of the emission units. 40.0 F P = 864.3(2)(2): 450(SP830.5.1.2)(SP830.

[40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stack # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Testing Requirements

5.3.1. 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

5.4.5. The permittee shall maintain monthly and annual records on the processing rate of sand to the five (5) Rotex Screens. The monthly and annual sand processing records may be maintained using the U.S. Silica Company

computerized Production Tracking Data System (PTDS). Such records shall be maintained in accordance with Condition 3.4.2. of this permit.

[45CSR13, R13-2145, 4.2.2.] (Rotex Screens 1S – 5S)

5.4.6 **Record of Maintenance of Air Pollution Control Equipment**. For all pollution control equipment listed in Section 1.0 of the current version of R13-2145, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures. [45CSR13, R13-2145, 4.4.2.] (CF #36, CF #6)

• 5.4.11. 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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.4.14. *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]**

5.4.15. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0 of the current version of R13-2145, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:

a. The equipment involved.

b. Steps taken to minimize emissions during the event.

c. The duration of the event.

d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded: e. The cause of the malfunction.

f. Steps taken to correct the malfunction.

g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.

[40 C.F.R. §60.676(b)(1); 45CSR16; 45CSR13, R13-2145, 4.4.3.] (CF #36, CF #6)

Reporting Requirements

5.5.1. Reserved.

5.5.2. (a) *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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

Emission Unit Description			
Emission unit ID number: 5 Micron Feed Bin, ELEV17, and BIN5	Emission unit name: 5 Micron Classification	List any control de with this emission CF #37	evices associated unit:
Provide a description of the emiss Five micron bagging system and ass	ion unit (type, method of operation, des sociated equipment	sign parameters, etc.)	:
Manufacturer:	Model number:	Serial number:	
Micropul	CFH-8-20	NA	
Construction date:	Installation date:	Modification date(s):	
1996	1996	NA	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 10			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
10	87,600 TPY	8760 Hours/Year	
Fuel Usage Data (fill out all applic	cable fields)	-	
Does this emission unit combust fo	Jel? 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 i the maximum hourly and annual f	f applicable, the secondary fuel type(s). fuel usage for each.	For each fuel type li	sted, provide
Describe each fuel expected to be	used during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	ТРҮ
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	Potenti	al Emissions
	PPH	TPY

Notes:

Applicable Requirements

List all applicable requirements for this emission unit. 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*). 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

5.1.4.1. 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]

5.1.4.2 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

5.2.1. Visible Emissions evaluations will be conducted as specified in Facility-wide requirements 3.2.1. [45CSR\$30-5.1c]

5.1.11. The following cartridge filter or baghouse pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the cartridge filter or baghouse to attain the required minimum particulate removal efficiency. Cartridge filter or baghouse pressure drop shall be monitored at least once per day. The monitoring device is

to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the Cartridge filter

or baghouse pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the cartridge filter or baghouse and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

According to the CAM plan submitted, the differential pressure gauges for the cartridge filter or baghouse shall be operated continuously during operation of the emission units.

[40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stack # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Testing Requirements

5.3.1. 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]

[40 C.F.K. §00.075; 45C5K16]

Recordkeeping Requirements

• 5.4.11. 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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.4.14. *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]**

Reporting Requirements

5.5.1. Reserved.

5.5.2. (a) *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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

Emission Unit Description			
Emission unit ID number: BIN4, MINUSIL 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 emiss Five micron bagger and associated e	ion unit (type, method of operation, des equipment	ign parameters, etc.):	
Manufacturer:	Model number:	Serial number:	
Micropul	CFH-18-20-VB	NA	
Construction date:	Installation date:	Modification date(s):	
1996	1996	NA	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 15			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:	
15	131,400 TPY	8760 Hours/Year	
Fuel Usage Data (fill out all applic	cable fields)	1	
Does this emission unit combust fo	uel? 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 i the maximum hourly and annual i	f applicable, the secondary fuel type(s). fuel usage for each.	For each fuel type lis	ted, provide
Describe each fuel expected to be	used during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	ТРҮ
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	
	РРН	ТРҮ
None		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	ТРҮ

Notes:

Applicable Requirements

List all applicable requirements for this emission unit. 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*). 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

5.1.4.3. 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]

5.1.4.4. 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), the bagger bin (air pollution source 4S) [MIN-U-SIL 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

5.2.1. Visible Emissions evaluations will be conducted as specified in Facility-wide requirements 3.2.1. [45CSR\$30-5.1c]

5.1.11. The following cartridge filter or baghouse pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the cartridge filter or baghouse to attain the required minimum particulate removal efficiency. Cartridge filter or baghouse pressure drop shall be monitored at least once per day. The monitoring device is

to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the Cartridge filter

or baghouse pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the cartridge filter or baghouse and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

According to the CAM plan submitted, the differential pressure gauges for the cartridge filter or baghouse shall be operated continuously during operation of the emission units.

[40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stack # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Testing Requirements

5.3.1. 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

• 5.4.11. 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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.4.14. *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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Reporting Requirements

5.5.1. Reserved.

5.5.2. (a) *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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

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

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	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	
	РРН	TPY
None		
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	РРН	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, 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 <u>construction permit</u> 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

6.1.2. The following Non-NSPS Fabric Filter pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the filters to attain the required minimum particulate removal efficiency. Filter pressure

drop shall be monitored at least once per day. The monitoring device is to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the filter pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the filter and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

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, 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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1. [45CSR§30-5.1c]

Testing Requirements

NA [R30-06500001-2014 (MM01 & MM02) sections 6.3.]

Recordkeeping Requirements

Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2014 (MM01 & MM02) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2014 (MM01 & MM02) 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 R30-06500001-2014 (MM01 & MM02) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(19) 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.

(20) 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:

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

(xxix) 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

(xxx) 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?

Emission Unit Description			
Emission unit ID number: PACKR1	Emission unit name: Screening and Unground Sand Processing	List any control d with this emission CF #40	evices associated unit:
Provide a description of the emiss Screening and Unground Sand Proc	ion unit (type, method of operation, d essing	lesign parameters, etc.)	:
Manufacturer:	Model number:	Serial number:	
Donaldson	Torit DF-T2-8	NA	
Construction date:	Installation date:	Modification date	(s):
Pre-1975	Pre-1975	NA	
Design Capacity (examples: furna 200	aces - tons/hr, tanks - gallons):		
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operat	ing Schedule:
200	1,750,000 TPY	8760 Hours/Year	
Fuel Usage Data (fill out all applied	cable fields)		
Does this emission unit combust for	uel? No	If yes, is it?	
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr i burners:	cating of
List the primary fuel type(s) and i the maximum hourly and annual	if applicable, the secondary fuel type(fuel usage for each.	s). For each fuel type li	sted, provide
Describe each fuel expected to be	used during the term of the permit.		
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	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	
	РРН	TPY
None		
Regulated Pollutants other than	Potentia	ll Emissions
Criteria and HAP	РРН	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, 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 <u>construction permit</u> 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

6.1.2. The following Non-NSPS Fabric Filter pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the filters to attain the required minimum particulate removal efficiency. Filter pressure

drop shall be monitored at least once per day. The monitoring device is to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the filter pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the filter and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

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, 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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1. [45CSR§30-5.1c]

Testing Requirements

NA [R30-06500001-2014 (MM01 & MM02) sections 6.3.]

Recordkeeping Requirements

Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2014 (MM01 & MM02) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2014 (MM01 & MM02) 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 R30-06500001-2014 (MM01 & MM02) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(21) 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.

(22) 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:

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

(xxxii) 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

(xxxiii)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?

Emission Unit Description				
Emission unit ID number: BF1, ELEV 22, ELEV 24, Screen 21, AIRSD1, Airslide 100	Emission unit name: Milling Process	List any control de with this emission CF #41	evices associated unit:	
Provide a description of the emiss CGS and Handling Equipment	ion unit (type, method of operation, des	ign parameters, etc.):	:	
Manufacturer:	Model number:	Serial number:		
Donaldson	Torit DFT2-4-155	NA		
Construction date:	Installation date:	Modification date(s):	
1981	1981	NA		
Design Capacity (examples: furna 8 TPH	Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 8 TPH			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operati	ing Schedule:	
8 TPH	See Applicable Requirements	8760 Hours/year		
Fuel Usage Data (fill out all applic	able fields)			
Does this emission unit combust fu	iel? 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	

Emissions Data		
Criteria Pollutants	Poten	tial Emissions
	РРН	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.15	0.66
Particulate Matter (PM ₁₀)	0.15	0.66
Total Particulate Matter (TSP)	0.15	0.66
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
None		
Regulated Pollutants other than	Poten	tial Emissions
Criteria and HAP	PPH	TPY
List the method(s) used to calculate the po versions of software used, source and date	tential emissions (include da s of emission factors, etc.).	ates of any stack tests conducted,
Notes:		
Applicable Requirements		

List all applicable requirements for this emission unit. 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*). 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:

Airslide 100 (Stack #41): 8 TPH

[45CSR13, R13-2595 (Condition A.1) and PD10-027] [Stack # 42 & 41]

Maximum particulate matter emissions to the atmosphere shall not exceed the following: Airslide 100: 0.15 PPH and 0.66 TPY 45CSR13, R13-2595 (Condition A.2) and PD10-027] [Stack # 42 & 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:

Airslide 100,: Torit DFT2-4-155 Baghouse (2C) at 99.9%

[45CSR13, R13-2595 (Condition A.3) and PD10-027] [Baghouses 2C & CF#42; Stack # 42 & 41]

5.1.10.4. The stabilized static pressure loss across baghouse 2C and CF#42 shall remain between 0.5 to 6.0 inches of water. [45CSR13, R13-2595 (Condition A.4) and PD10-027] [Baghouse 2C & CF#42; Stack # 42 & 41]

5.1.10.5. Except during startup and shutdown, opacity from baghouse 2C and Stack #42 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 #41and #42. These observations shall be conducted during periods of 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.5) and PD10-027] [Stack # 42 & 41]

According to the CAM plan submitted, the differential pressure gauges for the cartridge filter or baghouse shall be operated continuously during operation of the emission units.

[40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stack # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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

5.2.1. Visible Emissions evaluations will be conducted as specified in Facility-wide requirements 3.2.1. [45CSR\$30-5.1c]

5.1.11. The following cartridge filter or baghouse pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the cartridge filter or baghouse to attain the required minimum particulate removal efficiency. Cartridge filter or baghouse pressure drop shall be monitored at least once per day. The monitoring device is

to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the Cartridge filter or baghouse pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the cartridge filter or baghouse and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

According to the CAM plan submitted, the differential pressure gauges for the cartridge filter or baghouse shall be operated continuously during operation of the emission units.

[40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stack # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Testing Requirements

5.3.1. 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

• 5.4.11. 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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.4.14. *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]**

Reporting Requirements

5.5.1. Reserved.

5.5.2. (a) *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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

Emission Unit Description				
Emission unit ID number: Microsizer #3, PNEU1	Emission unit name: Milling Process	List any control devices associat with this emission unit: CF #42		
Provide a description of the emiss #3 Microsizer	ion unit (type, method of operation, de	sign parameters, etc.):		
Manufacturer:	Model number:	Serial number:		
Donaldson	Torit DFT-3-6	NA		
Construction date:	Installation date:	Modification date(s):		
1981	1981	2005		
Design Capacity (examples: furna See Applicable Requirements	Design Capacity (examples: furnaces - tons/hr, tanks - gallons): See Applicable Requirements			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:		
See Applicable Requirements	See Applicable Requirements	8760 Hours/year		
Fuel Usage Data (fill out all applied	cable fields)			
Does this emission unit combust f	uel? 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 the maximum hourly and annual	if applicable, the secondary fuel type(s) fuel usage for each.	. For each fuel type listed, provide		
Describe each fuel expected to be	used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash BTU Valu Content		

Emissions Data		
Criteria Pollutants	Potenti	al Emissions
	РРН	ТРҮ
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.40	1.75
Particulate Matter (PM ₁₀)	0.40	1.75
Total Particulate Matter (TSP)	0.40	1.75
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	PPH	ТРҮ
None		
Regulated Pollutants other than	Potenti	al Emissions
Criteria and HAP	PPH	ТРҮ
List the method(s) used to calculate the p versions of software used, source and da <u>Notes:</u>	potential emissions (include date tes of emission factors, etc.).	es of any stack tests conducted,
Applicable Requirements		

List all applicable requirements for this emission unit. 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*). 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 #42): 25 TPH PNEU1 (Stack #42): 8 TPH **45CSR13, R13-2595 (Condition A.1) and PD10-027] [Stack # 42 & 41]**

Maximum particulate matter emissions to the atmosphere shall not exceed the following: Microsizer #3: 1.20 PPH and 5.26 TPY PNEU1: 0.40 PPH and 1.75 TPY **45CSR13, R13-2595 (Condition A.2) and PD10-027] [Stack # 42 & 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, PNEU1: Torit DFT-3-6 at 99.9% Control Efficiency [45CSR13, R13-2595 (Condition A.3) and PD10-027] [Baghouses 2C & CF#42; Stack # 42 & 41]

5.1.10.4. The stabilized static pressure loss across baghouse 2C and CF#42 shall remain between 0.5 to 6.0 inches of water. [45CSR13, R13-2595 (Condition A.4) and PD10-027] [Baghouse 2C & CF#42; Stack # 42 & 41]

5.1.10.5. Except during startup and shutdown, opacity from baghouse 2C and Stack #42 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 #41and #42. These observations shall be conducted during periods of 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.5) and PD10-027] [Stack # 42 & 41]

According to the CAM plan submitted, the differential pressure gauges for the cartridge filter or baghouse shall be operated continuously during operation of the emission units.

[40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stack # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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

5.2.1. Visible Emissions evaluations will be conducted as specified in Facility-wide requirements 3.2.1. [45CSR\$30-5.1c]

5.2.2. The permittee shall monitor and maintain records of daily observations of pressure drop across baghouses 2C and CF#42.

[45CSR13, R13-2595, B.9 and PD10-027] [Baghouses 2C & CF#42; Stack # 28, 29 & 41]

5.2.4. 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 and PD10-027] [Baghouses 2C & CF#42; Stack # 42 & 41]

Testing Requirements

5.3.1. 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

• 5.4.11. 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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.4.14. *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Reporting Requirements

5.5.1. Reserved.

5.5.2. (a) *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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

Emission Unit Description					
Emission unit ID number: TANKS #7, #8, #13, #14, #15, #16 #17 #18	Emission unit name: Screening and Unground Sand	List any control do with this emission	evices associated unit:		
#17, #18 Processing CF #7 Provide a description of the emission unit (type, method of operation, design parameters, etc.): Storage Structures					
Manufacturer:	Model number:	Serial number:			
Donaldson	Torit DF-T4-32	NA			
Construction date:	Installation date:	Modification date	(s):		
Pre-1975	Pre-1975	2017			
Design Capacity (examples: furna 30	ces - tons/hr, tanks - gallons):				
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operat	ing Schedule:		
30	262,000 TPY	8760 Hours/year			
<i>Fuel Usage Data</i> (fill out all applic	Fuel Usage Data (fill out all applicable fields)				
Does this emission unit combust fu	iel? No	If yes, is it?			
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr r burners:	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		

Emissions Data		
Criteria Pollutants	Potential Emissions	
	РРН	ТРҮ
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _X)		
Lead (Pb)		
Particulate Matter (PM _{2.5})	43	
Particulate Matter (PM ₁₀)	43	
Total Particulate Matter (TSP)	43	
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Hazardous Air Pollutants	Potential Emissions	
	РРН	TPY
None		
Regulated Pollutants other than	Potentia	al Emissions
Criteria and HAP	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, 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 <u>construction permit</u> 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

6.1.2. The following Non-NSPS Fabric Filter pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the filters to attain the required minimum particulate removal efficiency. Filter pressure

drop shall be monitored at least once per day. The monitoring device is to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the filter pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the filter and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

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, 7, 10, 11, 12, 13, 20,

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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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1. [45CSR§30-5.1c]

Testing Requirements

NA [R30-06500001-2014 (MM01 & MM02) sections 6.3.]

Recordkeeping Requirements

Recordkeeping will be conducted as specified in facility-wide requirements R30-06500001-2014 (MM01 & MM02) sections 3.4.1., 3.4.2., 3.4.3 and 3.4.4. [45CSR§30-5.1c]

The monitoring required in R30-06500001-2014 (MM01 & MM02) 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 R30-06500001-2014 (MM01 & MM02) sections 3.5.6 and 3.5.8. [45CSR§30-5.1c]

General reporting requirements.

(23) 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.

(24) 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:

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

(xxxv) 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

(xxxvi) 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?

Emission unit name: Wet Float Plant n unit (type, method of operation, de	List any control de with this emission (CF #9 sign parameters, etc.):	vices associated mit:	
n unit (type, method of operation, de	sign parameters, etc.):		
Model number:	Serial number:		
Torit DF4-DF-32	NA		
Installation date:	Modification date(s):	
Pre-1970	2017		
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 30			
Maximum Annual Throughput:	Maximum Operati	ng Schedule:	
262,800 TPY	8760 Hours/year		
ble fields)			
? No	If yes, is it?		
Maximum design heat input and/or maximum horsepower rating:		Type and Btu/hr rating of burners:	
applicable, the secondary fuel type(s) el usage for each.). For each fuel type lis	ted, provide	
ed during the term of the permit.			
Max. Sulfur Content	Max. Ash Content	BTU Value	
	Forit DF4-DF-32 Installation date: Pre-1970 s - tons/hr, tanks - gallons): Maximum Annual Throughput: 262,800 TPY ble fields) !? No maximum horsepower rating: upplicable, the secondary fuel type(s) el usage for each. Max. Sulfur Content	Forit DF4-DF-32 NA Installation date: Modification date(s) 2re-1970 2017 s - tons/hr, tanks - gallons): Maximum Annual Throughput: Maximum Annual Throughput: Maximum Operating 262,800 TPY 8760 Hours/year ble fields) 11 1? No If yes, is it? maximum horsepower rating: Type and Btu/hr raturners: upplicable, the secondary fuel type(s). For each fuel type listel usage for each. ed during the term of the permit. Max. Sulfur Content Max. Ash Content Imax. Sulfur Content Max. Ash Content	

Emissions Data			
Criteria Pollutants	Potential Emissions		
	РРН	ТРҮ	
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		
	РРН	ТРҮ	
None			
Regulated Pollutants other than	Potent	ial Emissions	
Criteria and HAP	РРН	ТРҮ	

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]

List all applicable requirements for this emission unit. 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*). 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

5.1.9.1. 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]

5.1.9.2. 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]

5.1.9.3. 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]

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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 R30-06500001-2014 (MM01 & MM02) sections 3.2.1. [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 R30-06500001-2014 (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 #9 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]

• 5.4.11. 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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.4.14. *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Reporting Requirements

5.5.2. (a) *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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

Emission Unit Description				
Emission unit ID number: Minusil Storage Silos #6, #7, and #8 and SPOUT5	Emission unit name: Storage Structures	List any control d with this emission CF #28	List any control devices associated with this emission unit: CF #28	
Provide a description of the emiss Silica Sand Storage Silos	ion unit (type, method of operation, do	esign parameters, etc.):	
Manufacturer:	Model number:	Serial number:	Serial number:	
Donaldson	Torit DF-2D-F4	NA		
Construction date:	Installation date:	Modification date(s):		
1984	1984	1999		
Design Capacity (examples: furna 100	ices - tons/hr, tanks - gallons):			
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Opera	Maximum Operating Schedule:	
100 TPH	876000 TPY	8760 Hours/Year		
Fuel Usage Data (fill out all applied	cable 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 i the maximum hourly and annual	if applicable, the secondary fuel type(s fuel usage for each.). For each fuel type l	isted, provide	
Describe each fuel expected to be	used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	

Emissions Data		
Criteria Pollutants	Poter	ntial Emissions
	РРН	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	
	РРН	ТРҮ
None		
Regulated Pollutants other than	Potential Emissions	
Criteria and HAP	РРН	ТРҮ

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 <u>construction permit</u> 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

5.1.2. The following emission limits shall not be exceeded: Storage Silo #6: 0.05 PPH [45CSR13, R13-750] [Stacks 28, 29 &33]

5.1.5. Particulate matter (PM) emissions shall not exceed the following hourly and annual emission limits: Stack #28: 0.70 PPH and 0.07 TPY

[45CSR13, R13-1970, A.1] [Stack # 28]

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

5.2.1. Visible Emissions evaluations will be conducted as specified in Facility-wide requirements 3.2.1. [45CSR\$30-5.1c]

5.1.11. The following cartridge filter or baghouse pressure drop ranges obtained from stack test and historical data are an indicator of compliance for the cartridge filter or baghouse to attain the required minimum particulate removal efficiency. Cartridge filter or baghouse pressure drop shall be monitored at least once per day. The monitoring device is

to be certified to be accurate within \cdot 0.1 inch water gauge. An excursion shall be defined as when the Cartridge filter

or baghouse pressure drop falls outside the following range. When an excursion occurs, the permittee shall conduct an inspection of the cartridge filter or baghouse and corrective actions shall be taken to return the pressure drop within the following range: 0.5-6.0"

According to the CAM plan submitted, the differential pressure gauges for the cartridge filter or baghouse shall be operated continuously during operation of the emission units.

[40 C.F.R. §64.3(a)(2); 45CSR§30-5.1.c.] [Stack # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Testing Requirements

5.3.1. 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

• 5.4.11. 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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

5.4.14. *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

Reporting Requirements

5.5.1. Reserved.

5.5.2. (a) *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 # 6, 9, 25, 28, 29, 33, 34, 36, 37, 38, 41 & 42]

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

Emission Unit Description						
Emission unit ID number: MOB-CONV, BE-03, C-Silo	Emission unit name: Screening and Unground Sand Processing	List any control de with this emission N/A	evices associated unit:			
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Screening and Unground Sand Processing						
Manufacturer:	Model number:	Serial number:				
n/a	n/a	n/a				
Construction date:	Installation date:	Modification date(s):				
n/a	n/a	n/a				
Design Capacity (examples: furna MOB-CONV: 300 tph BE-03: 100 tph C-Silo: 150 tph	ces - tons/hr, tanks - gallons):					
Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:				
300	1,314,000 TPY	8760 Hours/Year				
<i>Fuel Usage Data</i> (fill out all applic	able 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			
-						

Emissions Data			
Criteria Pollutants	Potential Emissions		
	РРН	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	Potentia	Potential Emissions	
	РРН	TPY	
None			
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	ТРҮ	

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, 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 <u>construction permit</u> 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. The following conditions and requirements are specific to the Mobile Conveyor (MOB-CONV), Bucket Elevator (BE-03), and the Cristobalite Silo (C Silo):

The permittee shall meet the following fugitive emissions limit for Bucket Elevator (BE-03) and the transfer points on Mobile Conveyor (MOB-CONV), Cristobalite Silo (C Silo), enclosed truck or railcar loading stations or from any other affected facility (as defined in §§60.670 and 60.671): 7 percent opacity

[45CSR16, 40CFR §60.672(b) and Table 3 to Subpart OOO of 40CFR60; 45CSR13, R13-2145, 5.1.1.]

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

7.2.1. The permittee shall maintain monthly and annual records on the processing rate of sand to the mobile conveyor and bucket elevator. The monthly and annual sand processing records may be maintained using the U.S. Silica Company computerized Production Tracking Data System (PTDS). Such records shall be maintained in accordance with Condition 3.4.2 of this permit.

[45CSR13, R13-2145, 5.2.1.]

7.2.2. The permittee shall maintain records on the specific location of the Mobile Conveyor (MOB-CONV). Upon initial startup, these records shall include the date moved and a plot plan marking the location for each move. Such records shall be maintained in accordance with Condition 3.4.2 of this permit.

Testing Requirements

7.3.1. For demonstrating initial compliance with the visible emission limit of 7.1.1, the permittee shall demonstrate compliance by conducting:

a. An initial performance test according to 40 CFR §60.11 and 40 CFR §60.675; and

b. A repeat performance test according to 40 CFR §60.11 and 40 CFR §60.675 within 5 years from the previous performance test for fugitive emissions from affected facilities without water sprays. [45CSR16, Table 3 to Subpart OOO of 40 CFR 60; 45CSR13, R13-2145, 5.3.1.]

7.3.2. Method 9 of Appendix A-4 of 40 CFR 60 and the procedures in 40 CFR §60.11 will be used to determine opacity, with the following additions:

a. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet); b. The observer shall, when possible, select a position that minimizes interference from other fugitive emissions sources (e.g., road dust). The required observer position relative to the sun (Method 9 of Appendix A-4 of 40 CFR 60, Section 2.1) must be followed.

[45CSR16, 40 CFR §§60.675(b)(2) and (c)(1); 45CSR13, R13-2145, 5.3.2.]

7.3.3. When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR §§60.672(b) or 60.672(e)(1), the duration of the Method 9 (40 CFR 60, Appendix A–4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in 7.1.1. must be based on the average of the five 6-minute averages.

[45CSR16, 40 CFR §60.675(c)(3); 45CSR13, R13-2145, 5.3.3.]

5.3.2. For demonstrating initial compliance with the visible emission standards of 5.1.7.1.b. and 5.1.7.1.d., the permittee shall conduct performance testing to determine the visible emissions from the point and fugitive emission sources associated with Q-Rok loading at the facility, which includes Stack #6, Bucket Elevators (BE01 & BE02) and the associated load out spout. Such testing shall be conducted in accordance with Method 9 of Appendix A-4 of 40CFR 60, and the procedures in 40 C.F.R. §60.11. and Condition 3.3.1 of this permit and the following additions:

a. The minimum distance between the observer and the emission source shall be 15 feet. The observer shall, when possible, select a position that minimizes interference from other fugitive sources (e.g. road dust). The required observer position relative to the sun (Method 9 of Appendix A-4 of 40 CFR 60, Section 2.1.) must be followed.

b. The duration of the Method 9 observations for demonstrating compliance with the fugitive emission limit must be 30 minutes (five 6-minute averages). Compliance with the limit in 5.1.7.1.d. shall be based on the average of five 6-minute averages.

c. If a building/structure encloses the Bucket Elevators BE01 and BE02 and/or load out spout with the DSH system, the permittee shall conduct initial Method 9 observation of the building/structure to determine the compliance with fugitive emission limit of Condition 5.1.7.1.d. according to 40 C.F.R. 60 Subpart OOO and 40 C.F.R. §60.11. Such source must be operating while conducting the observations.

[40 C.F.R. §§60.675(c) and (d); 45CSR16; 45CSR13, R13-2145, 4.3.1.]

The permittee may use the following as alternatives to the reference methods and procedures listed in the above:

a a. If visible emissions from two or more facilities (affected sources) continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following

procedures may be used: i. Use for the combined emission stream the highest fugitive opacity standard application to any of the individual affected contributing to the emission stream.

ii. Separate the emissions so that the opacity of emissions from each affected can be read

- b. A single visible emission observer may conduct visible emissions observations for up to three fugitive, stack, or vent emission points within a 15-second interval if the following conditions are met:
 i. No more than three emission points may be read concurrently.
- ii ii. All three emission points must be within a 70 degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points.
- iii iii. If an opacity reading for any one of the three emission points equals or exceeds the applicable standard, then the observer must stop taking readings for the other two points and continue reading just that single point.
- iv

c. The permittee may reduce the 30-day advance notification of performance test in 40 C.F.R. §§60.7(a)(6), 60.8(d) and 15-day notification of Condition 3.3.1.c. to a 7-day advance notification.
[40 C.F.R. §§60.675(e) and (g); 45CSR16; 45CSR13, R13-2145, 4.3.1.]

Recordkeeping Requirements

7.4.1. The permittee shall maintain a record of each periodic inspection required under 40 CFR §60.674(b), including dates and any corrective actions taken, in a logbook (in written or electronic format). Keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Director upon request. **[45CSR16, 40 CFR §60.676(b)(1), 45CSR13, R13-2145, 5.4.1.]**

7.4.2. The permittee shall maintain a record of each visible emissions observation, including any data required by 40 C.F.R. 60 Appendix A, Method 22 or 45CSR7A, whichever is appropriate. The record will 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 will 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.

[45CSR7A, 45CSR13, R13-2145, 5.4.2.]

7.4.3. Record of Monitoring. 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.

[45CSR13, R13-2145, 5.4.3.]

5.4.15. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0 of the current version of R13-2145, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:

a. The equipment involved.

b. Steps taken to minimize emissions during the event.

c. The duration of the event.

d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:
e. The cause of the malfunction.

f. Steps taken to correct the malfunction.

g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.

[40 C.F.R. §60.676(b)(1); 45CSR16; 45CSR13, R13-2145, 4.4.3.] (CF #36, CF #6)

Reporting Requirements

7.5.1. The Director shall be notified of the initial start-up of Mobile conveyor (MOB-CONV) and Bucket Elevator (BE-03) within 15 days after such date. The notification of these sources can be included in a single notification and needs to include a description of each affected source, equipment manufacturer, and serial number of the equipment if available.

[45CSR16, 40 CFR §60.676(i), 45CSR13, R13-2145, 5.5.1.]

7.5.2. The permittee shall report the results of any test conducted as required in Section 7.3. of this permit to the Director within 60 days after completing such testing.

[45CSR16, 40 CFR §60.676(f), 45CSR13, R13-2145, 5.5.2.]

(25) 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.

(26) 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:

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

(xxxviii) 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

(xxxix) 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 F Schedule Of Compliance Forms

Not Applicable

Attachment G

Air Pollution Control Device Forms

Control device ID number: CF #1		List all emission units associated with this control device. CRUSH2, CONV3, CONV2	
Man	ufacturer:	Model number:	Installation date:
Dona	ldson	Torit DF-T4-32	Unknown
Type of Air Pollution Control Device:			
Х	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		

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%	

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

If No, **Provide justification**

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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.

Control device ID number: WSc #2	List all emission units associated with this control device. 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		

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%	

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? Yes

If Yes, **Complete ATTACHMENT H** CAM Plan was submitted with 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014). If No, **Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number: WSc #3	List all emission units associated with this control device. 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	Conter Wet Scrubber	Settling Chamber
Catalytic Incinerator	Condenser	Dry Plate Electrostatic Precipitator
Thermal Incinerator	Flare	Other (describe
Wet Plate Electrostatic Precipitator		

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%	

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number: CF #6		List all emission units associated with this control device. VIBFDS, ELEV4, CONV39-41, CONV29, CONV30, BE01, BE02, LS01	
Man	ufacturer:	Model number:	Installation date:
Donaldson		Torit 2DFA - 155	Unknown
Type of Air Pollution Control Device:			
Х	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		

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%	

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014). If No, **Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number:	List all emission units associated with this control device.	
CF #7	SCREN10-13, SCREN22-23, SCREN4, SCREN17 ELEV1, ELEV2, ELEV3, CONV31, CONV33, TANK #13, TANK #8, TANK #7, TANK #15, TANK #14, TANK #16, TANK #17, TANK #18	
Manufacturer:	Model number:	Installation date:
Donaldson	Torit DFT-32-SH	Unknown

Type of Air Pollution Control Device:

Х	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		

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014). If No, **Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number: WSc #8	List all emission units associated with this control device. 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		

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%	

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Cont CF #	rol device ID number: 9	List all emission units associated with this control device. SCREN18 (2s),, PACKR8 (IE), ELEV 19, ELEV20, STANK18, steel storage tank. And SPOUT4	
Man	ufacturer:	Model number:	Installation date:
Dona	ldson	Torit 4DFT-32-155	Unknown
Type of Air Pollution Control Device:			
Х	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		

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%	

Indicator Range for Pressure Drop (in H2O): 0.5-6.0"

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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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014). If No, **Provide justification**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Cont CF #	rol device ID number: 10	List all emission units associated with this control device. SCREW3, SCREW4, MILL FEED BIN#1, MILL FEED BIN#2, FEEDB1, FEEDB2, MILL2, MILL3, SCREW6, AIRSD7, ELEV6, FLEV7	
Man	ufacturer:	Model number:	Installation date:
Mikr	opul	CFH 40T-20-B	Unknown
Туре	of Air Pollution Control Device:		
Х	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		

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%

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number:	List all emission units associated with this control device.	
CF #11	SCREW4, #3 AND #4 MILL FEED BINS, FEEDB3, FEEDB4, MILL4, MILL5, SCREW7, AIRSD8, ELEV8, ELEV9, PNEU4, AIRSL 13 and ELEV16 (7S)	
Manufacturer:	Model number:	Installation date:
Donaldson	Torit DFT 4-48	3-15-2012
Type of Air Pollution Control Device:		

Х	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		

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%	

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Cont	rol device ID number:	List all emission units associated with this control device.	
CF #1	12	#5 MILL FEED BIN, FEEDB5, MILL6, ELEV10, #6 MILL FEED BIN, FEEDB6. MILL7, AIRSD3, ELEV11, ELEV15, PNEU2, BIN2, BIN7, #1 AND #2 PUMPS, AIRSL 12, TAILING BINS	
Man	Ianufacturer: Model number: Installation date:		Installation date:
Mikropul		CFH 40T-20-B	Unknown
Type of Air Pollution Control Device:			
Х	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

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%	

Indicator Range for Pressure Drop (in H2O): 0.5-6.0"

Wet Plate Electrostatic

Precipitator

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Cont CF #	rol device ID number: 13	List all emission units associated with this control device. ELEV23, CGS Tank, PEMCO Tank, SPOUT6	
Man	ufacturer:	Model number:	Installation date:
Dona	ldson	Torit DF-T3-24	Unknown
Type of Air Pollution Control Device:			
Х	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		

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%	

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number: CF #20		List all emission units associated with this control device. PACKR3 and PACKR4	
Manufacturer:		Model number:	Installation date:
Dona	ldson	Torit DF-T4-16	Unknown
Type of Air Pollution Control Device:			
Х	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		

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%	

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number: CF #25		List all emission units associated with this control device. CONV25, SCREN16, CONV26, and CONV27	
Manufacturer:		Model number:	Installation date:
Donaldson		Torit DF-4DF-48	Unknown
Type of Air Pollution Control Device:			
Х	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		

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%	

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number: CF #27		List all emission units associated with this control device. CONV51, PULVERIZER TANK #19, PULVERIZER TANK #20, TANKS #9-#12, STEEL TANK #21, SPOUT1, SPOUT2	
Manufacturer:		Model number:	Installation date:
Dona	ldson	Torit DF-T2-8	Unknown
Type of Air Pollution Control Device:			
Х	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		

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%	

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

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Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number: CF #28		List all emission units associated with this control device. Minusil storage silos #6-#8, SPOUT5	
Manufacturer:		Model number:	Installation date:
Donaldson		Torit DF-2D-F4	Unknown
Type of Air Pollution Control Device:			
Х	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		

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%	

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number:		List all emission units associated with this control device.	
CF #2	29	Minusil storage silo #5	
Man	ıfacturer:	Model number:	Installation date:
Micropul		CFH-18-20-VB	Unknown
Type of Air Pollution Control Device:			
Х	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		

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%	

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number: CF #33		List all emission units associated with this control device. Supersil storage silos #1 - #4 (1e-4e)	
Manufacturer:		Model number:	Installation date:
Donaldson		Torit DF-T4-16	Unknown
Type of Air Pollution Control Device:			
Х	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		

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%	

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number: CF #34		List all emission units associated with this control device. PACKR5 (1e & 2e), SPOUT3	
Manufacturer:		Model number:	Installation date:
Dona	ldson	Torit DF-2DF-4	Unknown
Type of Air Pollution Control Device:			
Х	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		

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%	

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number: CF #36		List all emission units associated with this control device. SCREN 7-9 and 14-15 (1E)	
Manufacturer:		Model number:	Installation date:
Dona	ldson	Torit DF-T2-8	Unknown
Type of Air Pollution Control Device:			
Х	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		

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%	

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

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Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number:		List all emission units associated with this control device.	
Cr #57		5 WICTON FEED BII, ELEV 7, and F	5
Manufacturer:		Model number:	Installation date:
Micropul		CFH-8-20	Unknown
Type of Air Pollution Control Device:			
Х	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		

List the pollutants for which this device is intended to control and the capture and control efficiencies.			
Capture Efficiency	Control Efficiency		
99.99%	99.9%		
99.99%	99.9%		
99.99%	99.9%		
	ce is intended to control and the ca Capture Efficiency 99.99% 99.99% 99.99%		

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

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Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number: CF #38		List all emission units associated with this control device. BIN4, MINUSIL Bagger Bin, and PACKR7	
Manufacturer:		Model number:	Installation date:
Micro	opul	CFH-18-20-VB	Unknown
Type of Air Pollution Control Device:			
Х	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		

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%	

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number:		List all emission units associated with this control device.	
CF #3	39	ELEV14	
Manufacturer:		Model number:	Installation date:
Micro	opul	CFH 8-20-V	Unknown
Type of Air Pollution Control Device:			
Х	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		

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%	

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number:		List all emission units associated with this control device.	
CF #4	40	PACKR1	
Man	ufacturer:	Model number:	Installation date:
Dona	ldson	Torit DF-T2-8	Unknown
Type of Air Pollution Control Device:			
Х	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		

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%	

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Control device ID number: CF #41		List all emission units associated with this control device. BF1, Screen 21, ELEV22, ELEV24, AIRSD1, AIRSD 100	
Manufacturer:		Model number:	Installation date:
Donaldson		DFT2-4-155	Unknown
Туре	of Air Pollution Control Device:		
Х	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		

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%			

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

Describe the parameters monitored and/or methods used to indicate performance of this control device.

CF #42		List all emission units associated with this control device. Microsizer #3, PNEU1	
Manufacturer:		Model number:	Installation date:
Donaldson		DFT2-4-155	Unknown
Type of Air Pollution Control Device:			
Х	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		

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%			

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 2014 renewal application. The WVDEP approved and incorporated the applicable requirement into the Title V permit (R30-06500001-2014).

If No, Provide justification

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Describe the parameters monitored and/or methods used to indicate performance of this control device.

Attachment H

Compliance Assurance Monitoring (CAM) Forms Not Applicable

All PSEUs and/or associated control devices were addressed in previous Title V renewal applications.