



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM**

STATE ONLY OPERATING PERMIT

Issue Date: November 19, 2020

Effective Date: November 19, 2020

Expiration Date: November 19, 2025

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated.

State Only Permit No: 46-00142

Federal Tax Id - Plant Code: 26-0181369-1

Owner Information

Name: CUSTOM PROC SVC LLC
Mailing Address: 461 STATE ST
EAST GREENVILLE, PA 18041-1701

Plant Information

Plant: CUSTOM PROC SVC LLC/E GREENVILLE
Location: 46 Montgomery County 46925 East Greenville Borough
SIC Code: 3295 Manufacturing - Minerals, Ground Or Treated

Responsible Official

Name: JOHN HARVEY
Title: PLANT MGR
Phone: (215) 679 - 5983

Permit Contact Person

Name: ROSA ARROYO
Title: HEALTH AND SAFETY LEADER
Phone: (610) 779 - 7001

[Signature] _____
JAMES D. REBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER

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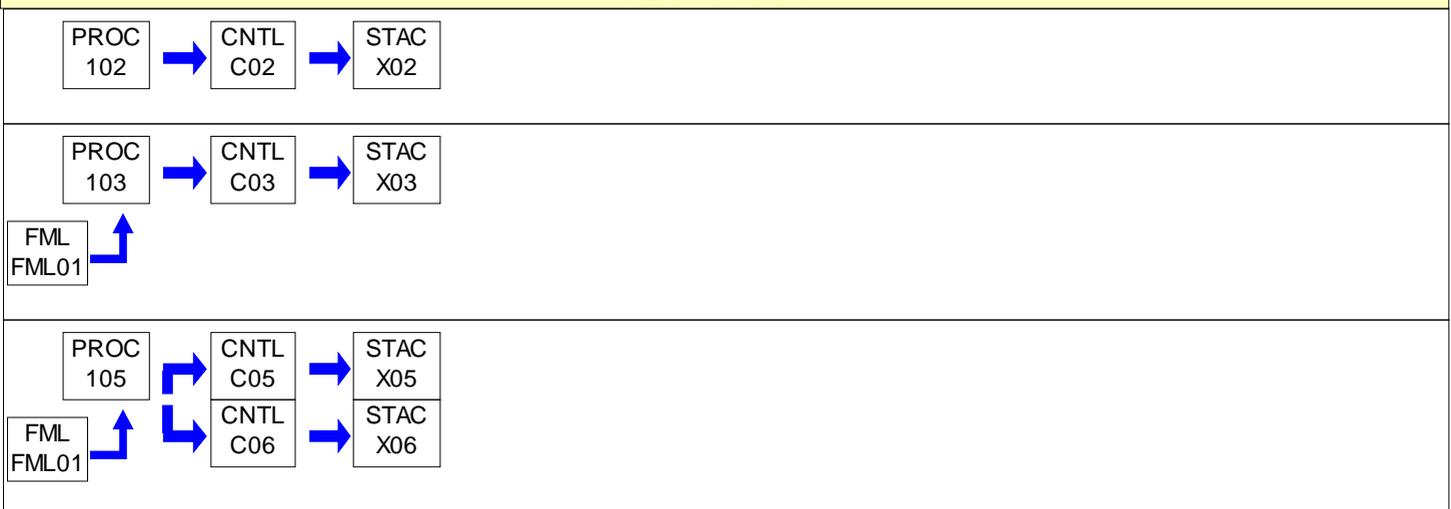
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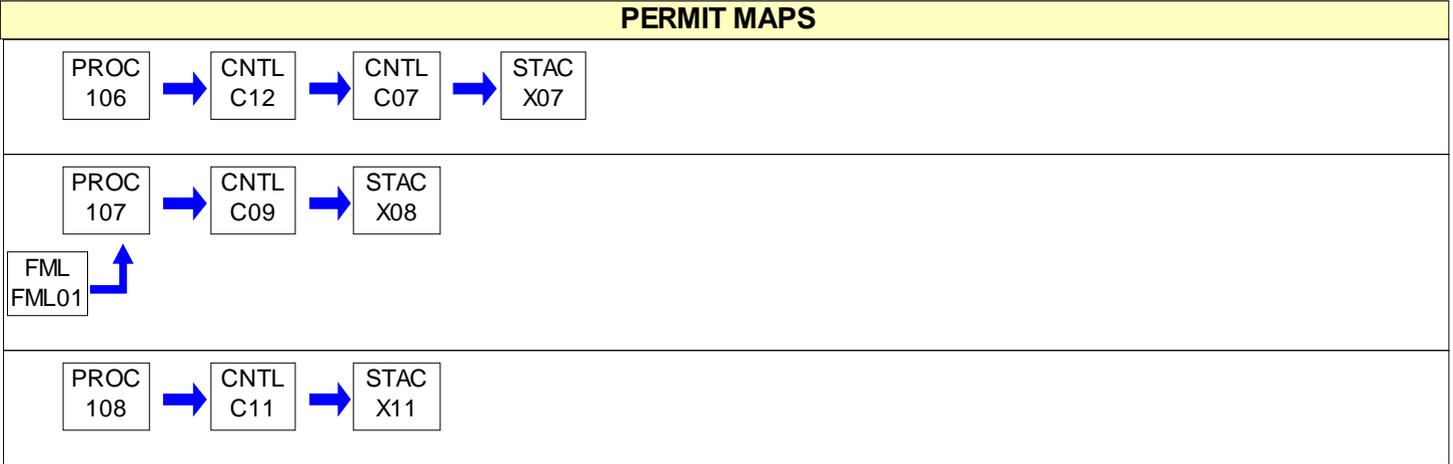
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
102	BRADLEY MILL GRINDING SYSTEM	4.000 Tons/HR	BAUXITE & MAGNESITE
103	ROTARY DRYER	25.000 Tons/HR	BAUXITE, CA SILICATE, &
		5,700.000 CF/HR	Natural Gas
105	14-INCH DRYER	1.000 Tons/HR	ARAZATE, CARUS CARRC
		2,500.000 CF/HR	Natural Gas
106	COARSE SYSTEM	25.000 Tons/HR	BAUXITE, CA SILICATE, C
107	6-INCH DRYER	500.000 Lbs/HR	MINERALS
		400.000 CF/HR	Natural Gas
108	MICRO MILLING STATION	2,000.000 Lbs/HR	MINERALS, METALS, CAR
C02	BRADLEY MILL DUST COLLECTOR		
C03	ROTARY DRYER DUST COLLECTOR		
C05	14-INCH DRYER DUST COLLECTOR		
C06	14-INCH DRYER NUISANCE DUST COLLECTOR		
C07	COARSE SYSTEM DUST COLLECTOR		
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C11	MICRO MILLING DUST COLLECTOR		
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FML01	NATURAL GAS PIPELINE		
X02	BRADLEY DUST COLLECTOR STACK		
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X08	6-INCH DRYER BAGHOUSE STACK		
X11	MICRO MILLING DUST COLLECTOR STACK		

PERMIT MAPS



PERMIT MAPS



**SECTION B. General State Only Requirements****#001 [25 Pa. Code § 121.1]****Definitions.**

Words and terms that are not otherwise defined in this permit shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and in 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.446]**Operating Permit Duration.**

- (a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.
- (b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit.

#003 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446 & 127.703(b)&(c)]**Permit Renewal.**

- (a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.
- (b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.
- (c) The permittee shall submit with the renewal application a fee for the processing of the application and an additional annual administrative fee as specified in 25 Pa. Code § 127.703(b) and (c). The fees shall be made payable to "The Commonwealth of Pennsylvania - Clean Air Fund" and shall be for the amount specified in the following schedule specified in 25 Pa. Code § 127.703(b) and (c).
- (1) Three hundred dollars for applications filed during the 2000-2004 calendar years.
 - (2) Three hundred seventy-five dollars for applications filed for the calendar years beginning in 2005.
- (d) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413.
- (e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).
- (f) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

#004 [25 Pa. Code § 127.703]**Operating Permit Fees under Subchapter I.**

- (a) The permittee shall pay fees according to the following schedule specified in 25 Pa. Code § 127.703(b):
- (1) Three hundred dollars for applications filed during the 2000-2004 calendar years.
 - (2) Three hundred seventy-five dollars for applications filed for the calendar years beginning in 2005.

This fee schedule shall apply to the processing of an application for an operating permit as well as the extension,

**SECTION B. General State Only Requirements**

modification, revision, renewal, and re-issuance of each operating permit or part thereof.

(b) The permittee shall pay an annual operating permit administrative fee according to the fee schedule established in 25 Pa. Code § 127.703(c).

(1) Two hundred fifty dollars for applications filed during the 1995-1999 calendar years.

(2) Three hundred dollars for applications filed during the 2000-2004 calendar years.

(3) Three hundred seventy-five dollars for applications filed during the years beginning in 2005.

(c) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania - Clean Air Fund".

#005 [25 Pa. Code §§ 127.450 (a)(4) and 127.464]**Transfer of Operating Permits.**

(a) This operating permit may not be transferred to another person, except in cases of transfer-of-ownership that are documented and approved by the Department.

(b) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership of the source shall be treated as an administrative amendment if the Department determines that no other change in the permit is required and a written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee and a compliance review form has been submitted to, and the permit transfer has been approved by, the Department.

(c) This operating permit is valid only for those specific sources and the specific source locations described in this permit.

#006 [25 Pa. Code § 127.441 and 35 P.S. § 4008]**Inspection and Entry.**

(a) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Department or authorized representatives of the Department to perform the following:

(1) Enter at reasonable times upon the permittee's premises where a source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;

(2) Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, any facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;

(4) Sample or monitor, at reasonable times, any substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

(b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act or regulations adopted thereunder including denying the Department access to a source at this facility. Refusal of entry or access may constitute grounds for permit revocation and assessment of criminal and/or civil penalties.

(c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#007 [25 Pa. Code §§ 127.441 & 127.444]**Compliance Requirements.**

(a) The permittee shall comply with the conditions of this operating permit. Noncompliance with this permit constitutes

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a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one or more of the following:

- (1) Enforcement action
- (2) Permit termination, revocation and reissuance or modification
- (3) Denial of a permit renewal application

(b) A person may not cause or permit the operation of a source which is subject to 25 Pa. Code Article III unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued for the source is operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this State-Only permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

#008 [25 Pa. Code § 127.441]**Need to Halt or Reduce Activity Not a Defense.**

It shall not be a defense for the permittee in an enforcement action that it was necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

#009 [25 Pa. Code §§ 127.442(a) & 127.461]**Duty to Provide Information.**

(a) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of each source at the facility.

(b) The permittee shall furnish to the Department, in writing, information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to maintain in accordance with this permit.

#010 [25 Pa. Code § 127.461]**Revising an Operating Permit for Cause.**

This operating permit may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

- (1) The permittee constructs or operates the source subject to the operating permit so that it is in violation of the Air Pollution Control Act, the Clean Air Act, the regulations thereunder, a plan approval, a permit or in a manner that causes air pollution.
- (2) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.
- (3) The permittee has failed to submit a report required by the operating permit or an applicable regulation.
- (4) The EPA determines that the permit is not in compliance with the Clean Air Act or the regulations thereunder.

#011 [25 Pa. Code §§ 127.450 & 127.462]**Operating Permit Modifications**

(a) The permittee is authorized to make administrative amendments, minor operating permit modifications and

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significant operating permit modifications, under this permit, as outlined below:

(b) Administrative Amendments. The permittee shall make administrative operating permit amendments (as defined in 25 Pa. Code § 127.450(a)), according to procedures specified in § 127.450 unless precluded by the Clean Air Act or its regulations.

(c) Minor Operating Permit Modifications. The permittee shall make minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(d) Permit modifications which do not qualify as minor permit modifications under 25 Pa. Code § 127.541 will be treated as a significant operating permit revision subject to the public notification procedures in §§ 127.424 and 127.425.

#012 [25 Pa. Code § 127.441]**Severability Clause.**

The provisions of this permit are severable, and if any provision of this permit is determined by a court of competent jurisdiction to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#013 [25 Pa. Code § 127.449]**De Minimis Emission Increases.**

(a) This permit authorizes de minimis emission increases in accordance with 25 Pa. Code § 127.449 so long as the permittee provides the Department with seven (7) days prior written notice before commencing any de minimis emissions increase. The written notice shall:

(1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.

(2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

(b) The Department may disapprove or condition de minimis emission increases at any time.

(c) Except as provided below in (d), the permittee is authorized to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:

(1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.

(2) One ton of NO_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

(3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.

(4) Six-tenths of a ton of PM₁₀ from a single source during the term of the permit and 3.0 tons of PM₁₀ at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.

(5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.

(6) Other sources and classes of sources determined to be of minor significance by the Department.

(d) In accordance with § 127.14, the permittee is authorized to install the following minor sources without the need for a plan approval or permit modification:

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(1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.

(2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.

(3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code §123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.

(4) Space heaters which heat by direct heat transfer.

(5) Laboratory equipment used exclusively for chemical or physical analysis.

(6) Other sources and classes of sources determined to be of minor significance by the Department.

(e) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:

(1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (c)(4) and (5) of this permit condition.

(2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.

(3) Violate any applicable requirement of this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.

(g) Except for de minimis emission increases, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.

(h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#014 [25 Pa. Code § 127.3]**Operational Flexibility.**

The permittee is authorized to make changes within the facility in accordance with the regulatory provisions outlined in 25 Pa. Code § 127.3 (relating to operational flexibility) to implement the operational flexibility requirements provisions authorized under Section 6.1(i) of the Air Pollution Control Act and the operational flexibility terms and conditions of this permit. The provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements include the following:

(1) Section 127.14 (relating to exemptions)

(2) Section 127.447 (relating to alternative operating scenarios)

(3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)

(4) Section 127.449 (relating to de minimis emission increases)

(5) Section 127.450 (relating to administrative operating permit amendments)

**SECTION B. General State Only Requirements**

(6) Section 127.462 (relating to minor operating permit modifications)

(7) Subchapter H (relating to general plan approvals and general operating permits)

#015 [25 Pa. Code § 127.11]**Reactivation**

(a) The permittee may not reactivate a source that has been out of operation or production for at least one year unless the reactivation is conducted in accordance with a plan approval granted by the Department or in accordance with reactivation and maintenance plans developed and approved by the Department in accordance with 25 Pa. Code § 127.11a(a).

(b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisfies the conditions specified in 25 Pa. Code § 127.11a(b).

#016 [25 Pa. Code § 127.36]**Health Risk-based Emission Standards and Operating Practice Requirements.**

(a) When needed to protect public health, welfare and the environment from emissions of hazardous air pollutants from new and existing sources, the permittee shall comply with the health risk-based emission standards or operating practice requirements imposed by the Department, except as precluded by §§ 6.6(d)(2) and (3) of the Air Pollution Control Act [35 P.S. § 4006.6(d)(2) and (3)].

(b) A person challenging a performance or emission standard established by the Department has the burden to demonstrate that performance or emission standard does not meet the requirements of Section 112 of the Clean Air Act.

#017 [25 Pa. Code § 121.9]**Circumvention.**

No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of 25 Pa. Code Article III, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#018 [25 Pa. Code §§ 127.402(d) & 127.442]**Reporting Requirements.**

(a) The permittee shall comply with the applicable reporting requirements of the Clean Air Act, the regulations thereunder, the Air Pollution Control Act and 25 Pa. Code Article III including Chapters 127, 135 and 139.

(b) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of any air contamination source.

(c) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:

Regional Air Program Manager
PA Department of Environmental Protection
(At the address given in the permit transmittal letter, or otherwise notified)

(d) Any records or information including applications, forms, or reports submitted pursuant to this permit condition shall contain a certification by a responsible official as to truth, accuracy and completeness. The certifications submitted under this permit shall require a responsible official of the facility to certify that based on information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate and complete.

(e) Any records, reports or information submitted to the Department shall be available to the public except for such

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records, reports or information which meet the confidentiality requirements of § 4013.2 of the Air Pollution Control Act and §§ 112(d) and 114(c) of the Clean Air Act. The permittee may not request a claim of confidentiality for any emissions data generated for the facility.

#019 [25 Pa. Code §§ 127.441(c) & 135.5]**Sampling, Testing and Monitoring Procedures.**

(a) The permittee shall comply with the monitoring, recordkeeping or reporting requirements of 25 Pa. Code Chapter 139 and the other applicable requirements of 25 Pa. Code Article III and additional requirements related to monitoring, reporting and recordkeeping required by the Clean Air Act and the regulations thereunder including the Compliance Assurance Monitoring requirements of 40 CFR Part 64, where applicable.

(b) Unless alternative methodology is required by the Clean Air Act and regulations adopted thereunder, sampling, testing and monitoring required by or used by the permittee to demonstrate compliance with any applicable regulation or permit condition shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139.

#020 [25 Pa. Code §§ 127.441(c) and 135.5]**Recordkeeping.**

(a) The permittee shall maintain and make available, upon request by the Department, the following records of monitored information:

- (1) The date, place (as defined in the permit) and time of sampling or measurements.
- (2) The dates the analyses were performed.
- (3) The company or entity that performed the analyses.
- (4) The analytical techniques or methods used.
- (5) The results of the analyses.
- (6) The operating conditions as existing at the time of sampling or measurement.

(b) The permittee shall retain records of any required monitoring data and supporting information for at least five (5) years from the date of the monitoring, sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit.

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions.

#021 [25 Pa. Code § 127.441(a)]**Property Rights.**

This permit does not convey any property rights of any sort, or any exclusive privileges.

#022 [25 Pa. Code § 127.447]**Alternative Operating Scenarios.**

The permittee is authorized to make changes at the facility to implement alternative operating scenarios identified in this permit in accordance with 25 Pa. Code § 127.447.

**SECTION B. General State Only Requirements****#023 [25 Pa. Code §135.3]****Reporting**

(a) If the facility is a Synthetic Minor Facility, the permittee shall submit by March 1 of each year an annual emissions report for the preceding calendar year. The report shall include information for all active previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported. All air emissions from the facility should be estimated and reported.

(b) A source owner or operator of a Synthetic Minor Facility may request an extension of time from the Department for the filing of an annual emissions report, and the Department may grant the extension for reasonable cause.

#024 [25 Pa. Code §135.4]**Report Format**

If applicable, the emissions reports shall contain sufficient information to enable the Department to complete its emission inventory. Emissions reports shall be made by the source owner or operator in a format specified by the Department.

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §121.7]****Prohibition of air pollution.**

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. Section 4003).

002 [25 Pa. Code §123.1]**Prohibition of certain fugitive emissions**

No person may permit the emission into the outdoor atmosphere of fugitive air contaminant from a source other than the following:

- (a) construction or demolition of buildings or structures;
- (b) grading, paving and maintenance of roads and streets;
- (c) use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets;
- (d) clearing of land;
- (e) stockpiling of materials;
- (f) open burning operations, as specified in 25 Pa. Code § 129.14;
- (g) blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting;
- (h) coke oven batteries, provided the fugitive air contaminants emitted from any coke oven battery comply with the standards for visible fugitive emissions in 25 Pa. Code §§ 123.44 and 129.15 (relating to limitations of visible fugitive air contaminants from operation of any coke oven battery; and coke pushing operations); and
- (i) sources and classes of sources other than those identified in (a)-(h), above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (1) the emissions are of minor significance with respect to causing air pollution; and
 - (2) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

003 [25 Pa. Code §123.2]**Fugitive particulate matter**

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code § 123.1(a)(1)-(9) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

004 [25 Pa. Code §123.31]**Limitations**

A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

005 [25 Pa. Code §123.41]**Limitations**

A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (a). Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.

**SECTION C. Site Level Requirements**

(b). Equal to or greater than 60% at any time.

006 [25 Pa. Code §123.42]**Exceptions**

The opacity limitations as per 25 Pa. Code § 123.41 shall not apply to a visible emission in either of the following instances:

- (a) When the presence of uncombined water is the only reason for failure to meet the limitations.
- (b) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (c) When the emission results from the sources specified in 25 Pa. Code § 123.1(a)(1)-(9) (relating to prohibition of certain fugitive emissions).

007 [25 Pa. Code §129.14]**Open burning operations**

No person may permit the open burning of material in the Southeast Air Basin except where the open burning operations result from:

- (a) a fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer;
- (b) any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department;
- (c) a fire set for the prevention and control of disease or pests, when approved by the Department;
- (d) a fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation;
- (e) a fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure;
- (f) a fire set solely for recreational or ceremonial purposes; or
- (g) a fire set solely for cooking food.

II. TESTING REQUIREMENTS.**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) If at any time the Department has cause to believe that air contaminant emissions from any source(s) listed in Section A, of this Permit, may be in excess of the limitations specified in this Permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).
- (b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139 and the most current version of the DEP Source Testing Manual, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

**SECTION C. Site Level Requirements****III. MONITORING REQUIREMENTS.****# 009 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

- (1). A device approved by the Department and maintained to provide accurate opacity measurements.
- (2). Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall monitor the facility, once per operating day, for the following:

- (1) Odors which may be objectionable (as per 25 Pa. Code §123.31).
- (2) Visible Emissions (as per 25 Pa. Code §§123.41 and 123.42).
- (3) Fugitive Particulate Matter (as per 25 Pa. Code §§ 123.1 and 123.2).

(b) Objectionable odors, fugitive particulate emissions, and visible emissions that are caused or may be caused by operations at the site shall:

- (1) Be investigated;
- (2) Be reported to the facility management, or individual(s) designated by the permittee;
- (3) Have appropriate corrective action taken (for emissions that originate on-site); and
- (4) Be recorded in a permanent written log.

(c) After six (6) months of daily monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly for the next six month period.

(d) After six (6) months of weekly monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.

(e) The Department reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification, complaints, monitoring results, and/or Department findings.

IV. RECORDKEEPING REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain records of all the facility's increases of emissions from the following categories:

- (a) De minimus increases without notification to the Department.
- (b) De minimus increases with notification to the Department, via letter.
- (c) Increases resulting from a Request for Determination (RFD) to the Department.
- (d) Increases resulting from the issuance of a plan approval and subsequent operating permit.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall maintain a record of all monitoring of fugitive emissions, visible emissions and odors, including those that deviate from the conditions found in this permit. The record of deviations shall contain, at a minimum, the following items:

- (a) Date, time, and location of the incident(s).
- (b) The cause of the event.
- (c) The corrective action taken, if necessary, to abate the situation and prevent future occurrences.

**SECTION C. Site Level Requirements****V. REPORTING REQUIREMENTS.****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR Part 68.]

- (a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).
- (b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the threshold quantity at a facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:
- (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
 - (i) Three years after the date on which a regulated substance is first listed under 40 CFR § 68.130; or,
 - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.
 - (2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.
 - (3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.
- (c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.
- (d) If this facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:
 - (1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,
 - (2) Certify that this facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.
- (e) If this facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.
- (f) When this facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if the permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

014 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

- (a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
- (b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.

**SECTION C. Site Level Requirements**

(c) The report shall describe the following:

- (1) Name, permit or authorization number, and location of the facility,
- (2) Nature and cause of the malfunction, emergency or incident,
- (3) Date and time when the malfunction, emergency or incident was first observed,
- (4) Expected duration of excess emissions,
- (5) Estimated rate of emissions,
- (6) Corrective actions or preventative measures taken.

(d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.

(e) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting requirements in accordance with paragraphs (b)-(d), as applicable, including any permit specific malfunction reporting requirements.

(f) Reports regarding malfunctions, emergencies or incidents of excess emissions shall be submitted to the appropriate DEP Regional Office Air Program Manager.

(g) Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization.

VI. WORK PRACTICE REQUIREMENTS.**# 015 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

A person responsible for any source specified 25 Pa. Code § 123.1 shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (a) Use, where possible, of water or suitable chemicals, as approved by the Department, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (b) Application of asphalt, water, or other suitable chemicals, as approved by the Department, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (c) Paving and maintenance of roadways.
- (d) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or by other means.

016 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall ensure that the source(s) and air pollution control device(s), listed in this permit, are operated and maintained in a manner consistent with good operating and maintenance practices, and in accordance with manufacturer's specifications.

017 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee may not modify any air contaminant system identified in this permit, prior to obtaining Department approval, except those modifications authorized by Condition #013(g), of Section B, of this permit.

**SECTION C. Site Level Requirements****# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall immediately, upon discovery, implement measures, which may include the application for the installation of an air cleaning device(s), if necessary, to reduce the air contaminant emissions to within applicable limitations, if at any time the operation of the source(s) identified in this permit, is causing the emission of air contaminants in excess of the limitations specified in, or established pursuant to, 25 Pa. Code Article III or any other applicable rule promulgated under the Clean Air Act.

VII. ADDITIONAL REQUIREMENTS.**# 019 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 40 CFR part 60 Subpart UUU].

All the sources listed in this State Only Operating Permit can process materials covered under SIC Code 3295 - "Minerals and Earths, Ground or Otherwise Treated". If source IDs 105 or/and 107 process any of the materials covered under SIC Code 3295 that are also subject to 40 CFR Part 60 Subpart UUU, the dryer(s) will be subject to the requirements of 40 CFR Part 60 Subpart UUU.

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this permit including Section B (relating to State Only General Requirements).

IX. COMPLIANCE SCHEDULE.

#020 29-JAN-21

By January 29, 2021, the permittee shall install the particulate monitor manufactured by Filtersense, model Dynacharge PM1 PRO T, on the micro milling station (Source ID 108).

**SECTION D. Source Level Requirements**

Source ID: 102

Source Name: BRADLEY MILL GRINDING SYSTEM

Source Capacity/Throughput:

4.000 Tons/HR

BAUXITE & MAGNESITE

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

No person may permit the emission into the outdoor atmosphere of particulate matter from this source at any time, in excess of 0.04 grains per dry standard cubic foot, pursuant to 25 Pa. Code § 123.13 (c)(1)(i).

[As long as the proper operation and maintenance of the control system are maintained, the permittee may demonstrate compliance through a one-time PM emission calculation based on maximum throughput and baghouse efficiency to satisfy the PM recordkeeping requirement of this condition.]

Control Device Efficiency Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain the pressure drop across the dust collector associated with this source between 0.1 inches water gauge and 5 inches water gauge.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the following information for this source on a per job basis:

- (a). The type of material processed through this source.
- (b). The amount of material processed through this source.
- (c). The hours of operation.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall monitor the pressure drop across the dust collector associated with this source on a daily basis, when operating.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of the following information for this source on a per job basis:

- (a). The type of material processed through this source.
- (b). The amount of material processed through this source.
- (c). The hours of operation.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of the pressure drop across the dust collector associated with this source on a daily basis, when operating.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall maintain all record keeping for a minimum of five (5) years and shall make these records available to the Department upon request.

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of all inspections and maintenance that is performed on the dust collector associated with this source, any deficiencies, and any corrective action taken.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for the dust collector associated with this source, in order to immediately replace any bags that have deteriorated from routine operation of the source and fabric collector.

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall perform inspections and/or maintenance on the dust collector associated with this source on at least a weekly basis or when there is a change in refractory product, whichever is more frequent.

011 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall operate and maintain this source and its associated dust collector in accordance with manufacturers' specifications.

**SECTION D. Source Level Requirements****# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The dust collector associated with this source shall be equipped with a differential manometer or equivalent, as approved by the Department, so that the pressure drop across the dust collector can be measured.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

**SECTION D. Source Level Requirements**

Source ID: 103

Source Name: ROTARY DRYER

Source Capacity/Throughput:

25.000 Tons/HR

BAUXITE, CA SILICATE, & CHROI

5,700.000 CF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a). The permittee shall not permit the emission into the outdoor atmosphere of particulate matter (filterable + condensable) from the process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.02 grain per dry standard cubic foot, and no greater than 0.23 pounds per hour, and 0.99 tons per year on a 12-month rolling sum.

(b). The permittee shall not permit the emission into the out door atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (1). Equal to or greater than 10% for a period or periods aggregating more than 3 minutes in any 1 hour.
- (2). Equal to or greater than 30% at any time.

Control Device Efficiency Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain the pressure drop across the dust collector associated with this source between 1.0 to 6.0 inches water gauge.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the following information for this source on a per job basis:

- (a). The type of material processed through this source.
- (b). The amount of material processed through this source.
- (c). The hours of operation.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall monitor the pressure drop across the dust collector associated with this source on a daily basis when this source is in operation.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of the following information for this source on a per job basis:

- (a). The type of material processed through this source.
- (b). The amount of material processed through this source.
- (c). The hours of operation.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of the pressure drop across the dust collector associated with this source on a daily basis when this source is in operation.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

- (a). The permittee shall calculate PM emissions on a monthly and 12-month rolling sum to show compliance with the emission limit in Condition # 001.
- (b). The permittee shall maintain all record keeping for a minimum of five (5) years and shall make these records available to the Department upon request.

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of all inspections and maintenance that is performed on the dust collector associated with this source, any deficiencies, and any corrective action taken.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for the dust collector associated with this source, in order to immediately replace any bags that have deteriorated from routine operation of the source and fabric collector.

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall perform inspections and/or maintenance on the dust collector associated with this source on at least a weekly basis or when there is a change in refractory product, whichever is more frequent.

011 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall operate and maintain this source and its associated dust collector in accordance with manufacturers' specifications.

**SECTION D. Source Level Requirements****# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The dust collector associated with this source shall be equipped with a differential manometer or equivalent, as approved by the Department, so that the pressure drop across the dust collector can be measured.

VII. ADDITIONAL REQUIREMENTS.**# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a). Depending on the material processed, the feeds to the rotary dryer may come directly from the jaw crusher or may bypass the jaw crusher.

(b). The emissions from the rotary dryer must be controlled by a baghouse.

(c). The baghouse shall meet the following description:

Manufacturer: Cam Corp.

Model No: 9TR8x81, Suction Design or equivalent

No. of Compartments: 1

No. of filters per compartments: 81

Type of Fabric: Polyester

Volume of gas handled: 5000 SCFM at 125-200 degree F

Type of cleaning: Reverse Air Jets

(d). There shall be no change to the rotary dryer or the the existing sources under this Permit.

**SECTION D. Source Level Requirements**

Source ID: 105

Source Name: 14-INCH DRYER

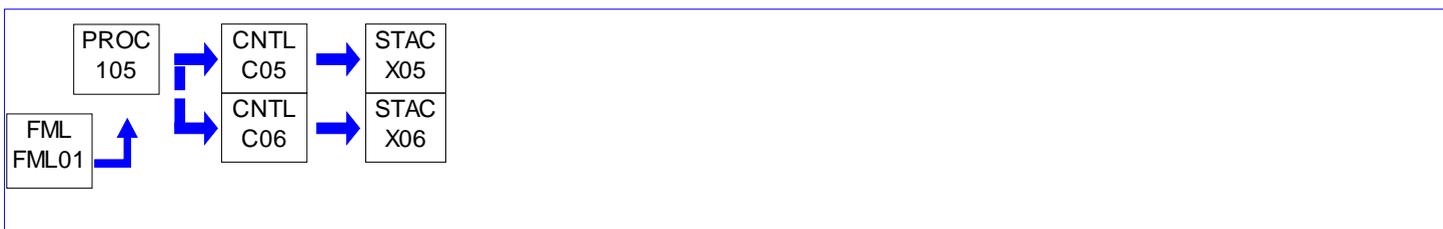
Source Capacity/Throughput:

1.000 Tons/HR

ARAZATE, CARUS CARROLITE &

2,500.000 CF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from this source at any time, in excess of 0.04 grains per dry standard cubic foot, pursuant to 25 Pa. Code § 123.13 (c)(1)(i).

[As long as the proper operation and maintenance of the control system are maintained, the permittee may demonstrate compliance through a one-time PM emission calculation based on maximum throughput and baghouse efficiency to satisfy the PM recordkeeping requirement of this condition.]

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the pressure drop across the dust collector(s) associated with this source on a daily basis, when operating.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the temperature of the dryer on a per job basis.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following information for this source on a per job basis:

- The type of material(s) being processed.
- The amount of material(s) being processed.
- The hours of operation.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of the temperature of the dryer on a per job basis.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of the pressure drop across the dust collector(s) associated with this source on a daily basis, when operating.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of all inspections and maintenance that is performed on the dust collector(s) associated with this source, any deficiencies, and any corrective action taken.

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of the following information for this source on a per job basis:

- (a). The type of material(s) being processed.
- (b). The amount of material(s) being processed.
- (c). The hours of operation.

009 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall maintain all record keeping for a minimum of five (5) years and shall make these records available to the Department upon request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall perform inspections and/or maintenance on the dust collector(s) associated with this source on at least a weekly basis or when there is a change in refractory product, whichever is more frequent.

011 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The company shall be limited to the following compounds for any slurry, sludge, filter cake and moist powder received for drying:

- (a) Omicure U-405 - N,N Dimethyl Phenyl Urea
- (b) Omicure U-415, U-52 - Methylene Diphenyl Bis (Dimethyl Urea)

**SECTION D. Source Level Requirements****# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

For the compounds listed in Condition #011 for this source, the following conditions shall apply:

- (a). For the compounds having a definite melting point, flash point and decomposition temperature, the compound shall not exceed the temperatures associated with these values when heated in the dryer.
- (b). For compounds listed in Condition #011 that do not have a definite melt point, flash point or decomposition temperature, the limiting temperature shall be 750 degrees F when heated in the dryer.

013 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The fabric collectors associated with this source shall be equipped with pressure drop gauges.

014 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The two fabric collectors covered under this source shall initiate cleaning when the pressure drop reaches 13.7 mbar (C05) and 5.5 inches of water column (C06).

015 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall operate and maintain this source and its associated fabric collector in accordance with manufacturers' specifications.

016 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for the fabric collector associated with the source, in order to be able to immediately replace any bags that have deteriorated resulting from routine operation of the source and fabric collector.

VII. ADDITIONAL REQUIREMENTS.**# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 40 CFR part 60 Subpart UUU].

The dryer will be subject to 40 CFR Part 60 Subpart UUU if it processes alumina, ball clay, bentonite, diatomite, feldspar, fire clay, fuller's earth, gypsum, industrial sand, kaolin, lightweight aggregate, magnesium compounds, perlite, roofing granules, talc, titanium dioxide, or vermiculite.

**SECTION D. Source Level Requirements**

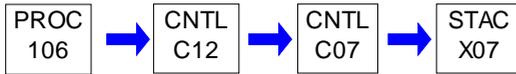
Source ID: 106

Source Name: COARSE SYSTEM

Source Capacity/Throughput:

25.000 Tons/HR

BAUXITE, CA SILICATE, CHROME

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a). The permittee shall not permit the emission into the outdoor atmosphere of particulate matter (filterable + condensable) from the Coarse System in a manner that the concentration of particulate matter in the effluent gas exceeds 0.02 grain per dry standard cubic foot, and no greater than 0.17 pounds per hour, and 0.75 tons per year on a 12-month rolling sum.

(b). The permittee shall not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (1). Equal to or greater than 10% for a period or periods aggregating more than 3 minutes in any 1 hour.
- (2). Equal to or greater than 30% at any time.

Control Device Efficiency Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a). The permittee shall maintain the pressure drop across the dust collector associated with this source between 1.0 to 12.0 inches water gauge.

(b). The permittee shall maintain the pressure drop across the cyclone associated with this source between 0.1 to 5.0 inches water gauge.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the pressure drop across the cyclone and the dust collector associated with this source when operating on a daily basis.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall monitor the following information for this source on a per job basis:

- (a). The type of material processed through this source.
- (b). The amount of material processed through this source, in lbs.
- (c). The hours of operation.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of the pressure drop across the cyclone and the dust collector associated with this source when operating on a daily basis.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall maintain all record keeping for a minimum of five (5) years and shall make these records available to the Department upon request.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of all inspections and maintenance that is performed on the cyclone & the dust collector associated with this source, any deficiencies, and any corrective action taken.

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of the following information for this source on a per job basis:

- (a). The type of material processed through this source.
- (b). The amount of material processed through this source, in lbs.
- (c). The hours of operation.

009 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep monthly and 12-month rolling records of particulate emissions to demonstrate compliance with the emission limit.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The cyclone and the dust collector associated with this source shall be equipped with a differential manometer or equivalent, as approved by the Department, so that the pressure drop across the dust collector can be measured.

011 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for the dust collector associated with this source, in order to immediately replace any bags that have deteriorated from routine operation of the source and fabric collector.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall perform inspections and/or maintenance on the cyclone and the dust collector associated with this source on at least a weekly basis or when there is a change in refractory product, whichever is more frequent.

013 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall operate and maintain this source and its associated cyclone and the dust collector in accordance with

**SECTION D. Source Level Requirements**

manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). The emissions from the coarse system must be controlled by a cyclone and a baghouse.
- (b). The baghouse shall meet the following description:

Manufacturer: Donaldson Torrit.
Model No: DFT3-36, Suction Design or equivalent
No. of Compartments: 1
No. of filters per compartments: 36
Type of Fabric: Ultraweb or equivalent felted
Volume of gas handled: 25500 ACFM at 70 degree F
Type of cleaning: Reverse Air Jets

**SECTION D. Source Level Requirements**

Source ID: 107

Source Name: 6-INCH DRYER

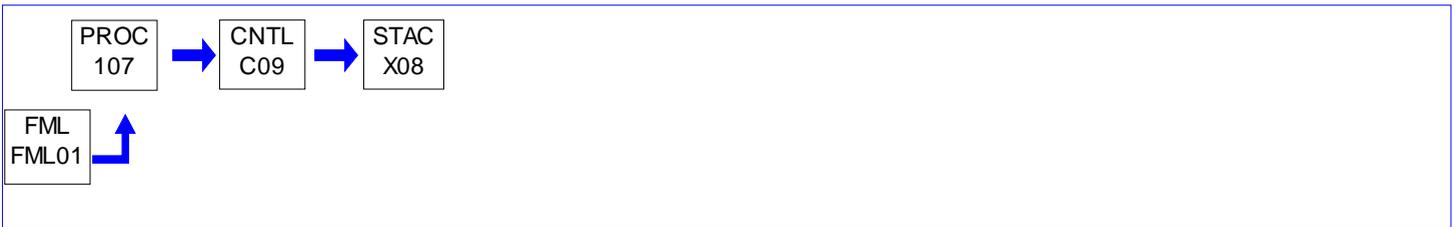
Source Capacity/Throughput:

500.000 Lbs/HR

MINERALS

400.000 CF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

No person may permit the emission into the outdoor atmosphere of particulate matter from this dryer at any time, in excess of 0.02 grains per dry standard cubic foot.

[Compliance with this streamlined permit condition demonstrates compliance with the particulate matter emission limitation in 25 Pa. Code §123.13 (c)(1)(i).]

[As long as the proper operation and maintenance of the control system are maintained, the permittee may demonstrate compliance through a one-time PM emission calculation based on maximum throughput and baghouse efficiency to satisfy the PM recordkeeping requirement of this condition.]

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the temperature of this dryer on a per job basis.

003 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall monitor the pressure drop across the baghouse associated with this dryer on a per job basis.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall monitor the following information for this dryer on a per job basis:

- (a). The type of material(s) being processed.
- (b). The amount of material(s) being processed.
- (c). The hours of operation.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of all inspections and maintenance that is performed on the baghouse associated with this dryer, any deficiencies, and any corrective action taken.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall maintain all recordkeeping for a minimum of 5 years and shall make these records available to the Department upon request.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of the following information for this dryer on a per job basis:

- (a). The type of material(s) being processed.
- (b). The amount of material(s) being processed.
- (c). The hours of operation.

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.443.]

The permittee shall keep records of the pressure drop across the baghouse associated with this dryer on a per job basis.

009 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.443.]

The permittee shall keep records of the temperature of this dryer on a per job basis.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.443.]

The company shall be limited to the following compounds for any slurry, sludge, filter cake, and moist powder received for drying:

- (a) Carulite 400, Type M, Type E, Catalysts - Manganese Dioxide
- (b) Omicure U-405 - N,N Dimethyl Phenyl Urea
- (c) Omicure U-415, U-52 - Methylene Diphenyl Bis (Dimethyl Urea)
- (d) Carbon, Activated Carbon
- (e) XP454 (Powder Carrier Coating) - Polymethylmethacrylate, Carbon Black

**SECTION D. Source Level Requirements****# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.443.]

For the compounds listed in Condition # 010, Section D (under Source ID 107), of this permit, the following conditions shall apply:

(a). For the compounds having a definite melting point, flash point, and decomposition temperature, the compound shall not exceed the temperatures associated with these values when heated in this dryer.

(b). For compounds listed in Condition # 010, Section D (under Source ID 107), of this permit, that do not have a definite melt point, flash point, or decomposition temperature, the limiting temperature shall be 1100°F when heated in this dryer.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep on hand a sufficient quantity of spare filter bags for the baghouse associated with this dryer, in order to immediately replace any bags that have deteriorated from routine operation of the dryer and baghouse.

013 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.443.]

The baghouse associated with this dryer shall be equipped with pressure drop gauges.

014 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.443.]

The baghouse associated with this dryer shall initiate cleaning when the pressure drop reaches 13.7 mbar.

015 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall perform inspections and/or maintenance on the dust collector associated with this source on at least a weekly basis or when there is a change in refractory product, whichever is more frequent.

016 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall operate and maintain this source and its associated fabric collector in accordance with manufacturers' specifications.

VII. ADDITIONAL REQUIREMENTS.**# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 40 CFR part 60 Subpart UUU].

The dryer will be subject to 40 CFR Part 60 Subpart UUU if it processes alumina, ball clay, bentonite, diatomite, feldspar, fire clay, fuller's earth, gypsum, industrial sand, kaolin, lightweight aggregate, magnesium compounds, perlite, roofing granules, talc, titanium dioxide, or vermiculite.

**SECTION D. Source Level Requirements**

Source ID: 108

Source Name: MICRO MILLING STATION

Source Capacity/Throughput: 2,000.000 Lbs/HR MINERALS, METALS, CARBON, &

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

A. The permittee shall not permit the emission into the outdoor atmosphere of particulate matter (filterable + condensable) from the process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.02 grain per dry standard cubic foot, and no greater than 0.14 pounds per hour, and 0.63 tons per year on a 12-month rolling sum.

B. The permittee shall not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (1) Equal to or greater than 10% for a period or periods aggregating more than 3 minutes in any 1 hour.
- (2) Equal to or greater than 30% at any time.

Control Device Efficiency Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain the pressure drop across the dust collector associated with this source between 0.025 - 14.9 mbar.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the following information for this source on a per job basis:

- (a). The type of material processed through this source.
- (b). The amount of material processed through this source, in lbs.
- (c). The hours of operation.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall monitor the pressure drop across the dust collector associated with this source when operating on a daily basis.

**SECTION D. Source Level Requirements****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall install, maintain, and continuously operate a particulate monitor as specified in paragraphs (1) through (6) of this section:

- (1) The permittee shall install, operate, and maintain the particulate monitor in a manner consistent with the manufacturer's written specifications and recommendations;
- (2) The particulate monitor must be certified by the manufacturer to be capable of detecting particulate matter emissions at concentrations of 5 milligrams per actual cubic meter or less;
- (3) The particulate monitor sensor must provide output of relative or absolute particulate matter loadings;
- (4) The particulate monitor must be equipped with a device to continuously record the output signal from the sensor;
- (5) The particulate monitor shall be programmed such that the process will automatically shut down if the PM emissions are above the PM emission limitation of 0.02 gr/dscf as described in condition #001 A;
- (6) The particulate monitor must be installed downstream of the fabric filter.

IV. RECORDKEEPING REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records to demonstrate the compliance with the Condition # 001A including the following information for this source on a per job basis:

- (a). The type of material processed through this source.
- (b). The amount of material processed through this source, in lbs.
- (c). The hours of operation.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of the pressure drop across the dust collector associated with this source when operating on a daily basis.

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall maintain all record keeping for a minimum of five (5) years and shall make these records available to the Department upon request.

009 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of all inspections and maintenance that is performed on the dust collector associated with this source, any deficiencies, and any corrective action taken.

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall calculate PM emissions on a monthly and 12-month rolling sum to show compliance with the emission

**SECTION D. Source Level Requirements**

limit in Condition # 001.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for the dust collector associated with this source, in order to immediately replace any bags that have deteriorated from routine operation of the source and fabric collector.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall perform inspections and/or maintenance on the dust collector associated with this source on at least a weekly basis or when there is a change in product, whichever is more frequent.

013 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The dust collector associated with this source shall be equipped with a differential manometer or equivalent, as approved by the Department, so that the pressure drop across the dust collector can be measured.

014 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall operate and maintain this source and its associated dust collector in accordance with manufacturer's specifications.

015 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The particulate monitor shall be inspected after one and six months of operation. After these two initial checks, if no need for sensor maintenance is observed, the permittee shall perform an annual inspection.

(b) Each inspection should consist of the following:

1. Visually inspect inside the sensor enclosure
2. Remove the sensor from the process and inspect the probe and insulator for buildup and/or moisture
 - i. The sensor probe and insulator may be wiped down with a damp rag
 - ii. Fully insulated probes are recommended for processes with moisture and most conductive particulates
3. Inspect the inside of the process mount for buildup and/or moisture
4. Check the outputs
5. Perform Functional Verification checks according to manufacturer's specifications.

016 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep manufacturer specifications for the particulate monitor on hand available for review.

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

1. The emissions from the micro milling operation must be controlled by a dust collector.
2. The baghouse shall meet the following description:

Manufacturer: MAC Process or equivalent.

Model No: 120 RT 62 or equivalent, Suction Design or equivalent.

No. of Compartments: 1

No. of filters per compartments: 80

Type of Fabric: Felted Membrane.

Volume of gas handled: 1881 ACFM at 250 degree F.

Type of cleaning: Reverse Air Jets.

018 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The particulate monitor shall meet the following description:

Manufacturer: Filtersense

Model: Dynacharge PM1 PRO T.



SECTION E. Source Group Restrictions.

No Source Groups exist for this permit.



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this permit.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description	Emission Limit	Pollutant
102	BRADLEY MILL GRINDING SYSTEM	0.040 gr/DRY FT3	TSP
103	ROTARY DRYER	0.020 gr/DRY FT3	total PM (filterable + condensable) TSP
		0.230 Lbs/Hr	TSP
		0.990 Tons/Yr	12-month rolling sum. TSP
105	14-INCH DRYER	0.040 gr/DRY FT3	TSP
106	COARSE SYSTEM	0.020 gr/DRY FT3	Total PM (filterable + condensable) TSP
		0.170 Lbs/Hr	TSP
		0.750 Tons/Yr	12-month rolling sum TSP
107	6-INCH DRYER	0.020 gr/DRY FT3	TSP
108	MICRO MILLING STATION	0.020 gr/DRY FT3	TSP
		0.140 Lbs/Hr	TSP
		0.630 Tons/Yr	TSP

Site Emission Restriction Summary

Emission Limit	Pollutant
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**SECTION H. Miscellaneous.**

#001. The following previously issued documents serve as the basis for certain terms and conditions set forth in this permit:

- (a). Operating Permit No. 46-399-091.
- (b). Plan Approval No. PA-46-0142A.

#002. The following sources have been determined by the Department to be insignificant sources of air emissions, and therefore do not require additional limitations, monitoring, or recordkeeping. They are still subject to any applicable Federal, State, and Local Regulations that may apply, including the Site Level Requirements (Section C) of this permit.

- (a). Firing of natural gas in the Rotary Dryer (Source ID. No. 103).
- (b). Firing of natural gas in the 14-inch Jet-o-Dryer (Source ID No. 105).
- (c). Firing of natural gas in the 6-inch Therma-Jet (Source ID No. 107).
- (d). Dry Mix Blender (formerly Source ID No. 104), does no vent to atmosphere.

#003. This permit is an Administrative Amendment to State Only Operating Permit No. SOOP-46-00142, originally issued on May 13, 2003 (APS: 346063, Auth ID: 354869). This Administrative Amendment (APS: 346063, Auth ID: 551053) incorporates Plan Approval No. PA-46-0142A into SOOP-46-00142. The following is a summary of the changes to this permit:

- (a). The responsible official has been changed to Donald Ames, Plant Manager, (215) 679-5983.
- (b). The following source, fuel material location, control devices, and emission point, along with corresponding Permit Map, conditions, and emission restrictions, have been added:

Source ID	Description
107	6-Inch Dryer
FML01	Natural Gas Pipeline
C08	6-Inch Dryer Cyclone
C09	6-Inch Dryer Baghouse
X08	6-Inch Dryer Baghouse Stack

- (c). The 'S' in the Source ID designation for the stacks at the facility has been changed to 'X' to indicate that the stacks are horizontal.
- (d). The Department telephone number at which to report a malfunction(s), as indicated in Condition # 013(a), Section C, of this permit, has been changed to 484-250-5920.
- (e). The particulate matter emission restrictions for Source ID 102, 103, 104, 105, and 106, as indicated in the Emission Restriction Summary (Section F), have been corrected as follows:
 - (1). The pollutant has been changed from Particulate Matter < 10 Microns (PM10) to Total Suspended Particulate (P000).
 - (2). The units have been changed from gr/CF to gr/DRY FT3.

#004. APS No. 346063; Authorization No. 609321: The permittee submitted a minor modification to change the pressure drop range across the nuisance dust collector (Source ID No. C07). The range of pressure drops in the initial permit did not represent the actual pressure range for the operation of this dust collector. No manufacturer's specifications are available for this dust collector. The language of the permit allows for a range of pressure drops to be changed once a stack test is performed to demonstrate that the emissions of particulate matter will not exceed the limits on particulate matter for this source in this permit.

#005. APS Id. 620425; Authorization No. 688694 - An administrative amendment was done to identify a change in ownership in accordance with 25 Pa. Code Section 127.450(a)(4).

#006. A permit renewal is being processed under APS No. 620425, AUTH No. 706099.

**SECTION H. Miscellaneous.**

#007. State Only Operating Permit (APS # 620425, Auth # 987443) has been renewed and administratively amended to incorporate the Plan Approval No. 46-0142D (APS # 620425, AUTH # 1083732).

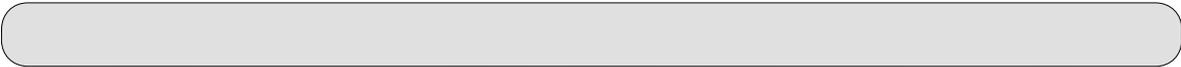
#008. APS No. 620425; Authorization No. 1192063: This permit was revised through an Administrative Amendment to incorporate conditions for Source ID No. 106 (the Coarse System) from Plan Approval 46-0142E into the operating permit in accordance with 25 Pa. Code Section 127.450(a)(5).

#009. A permit renewal is being processed under APS No. 620425, AUTH No. 1300133. The following is a summary of the changes to this permit:

(a). The permit contact person has been changed to Rosa Arroyo, Health and Safety Leader, (610) 779-7001.

(b). Custom Processing Services LLC (CPS) submitted RFD#7330 for existing Micro Milling Station (source ID 108 and C11). This source has been originally approved under Plan Approval 46-0142C by the department since February 2014. Plan Approval No. PA-46-0142C, is incorporated into SOOP-46-00142.

(c). The pressure drop value beyond which cleaning must be initiated for the baghouses (C05) – associated to source ID 105, and (C09) – associated to source ID 107, were converted in mbar (5.5 inches water gauge = 13.7 mbar)



***** End of Report *****
