



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

STATE ONLY OPERATING PERMIT

| | | | |
|----------------|-----------------|------------------|-----------------|
| Issue Date: | August 28, 2018 | Effective Date: | May 21, 2020 |
| Revision Date: | May 21, 2020 | Expiration Date: | August 28, 2023 |
| Revision Type: | Amendment | | |

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: 23-00047

Synthetic Minor

Federal Tax Id - Plant Code: 63-0673043-1

Owner Information

Name: EVONIK CORP
Mailing Address: 1200 W FRONT ST
CHESTER, PA 19013-3438

Plant Information

Plant: EVONIK CORP/CHESTER
Location: 23 Delaware County 23001 Chester City
SIC Code: 2819 Manufacturing - Industrial Inorganic Chemicals, Nec

Responsible Official

Name: NICK KARAOLIS
Title: PLANT MGR
Phone: (610) 990 - 8091

Permit Contact Person

Name: JACKLYN MATSANKA
Title: ENV, HEALTH & SAFETY ENG
Phone: (610) 990 - 8125

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

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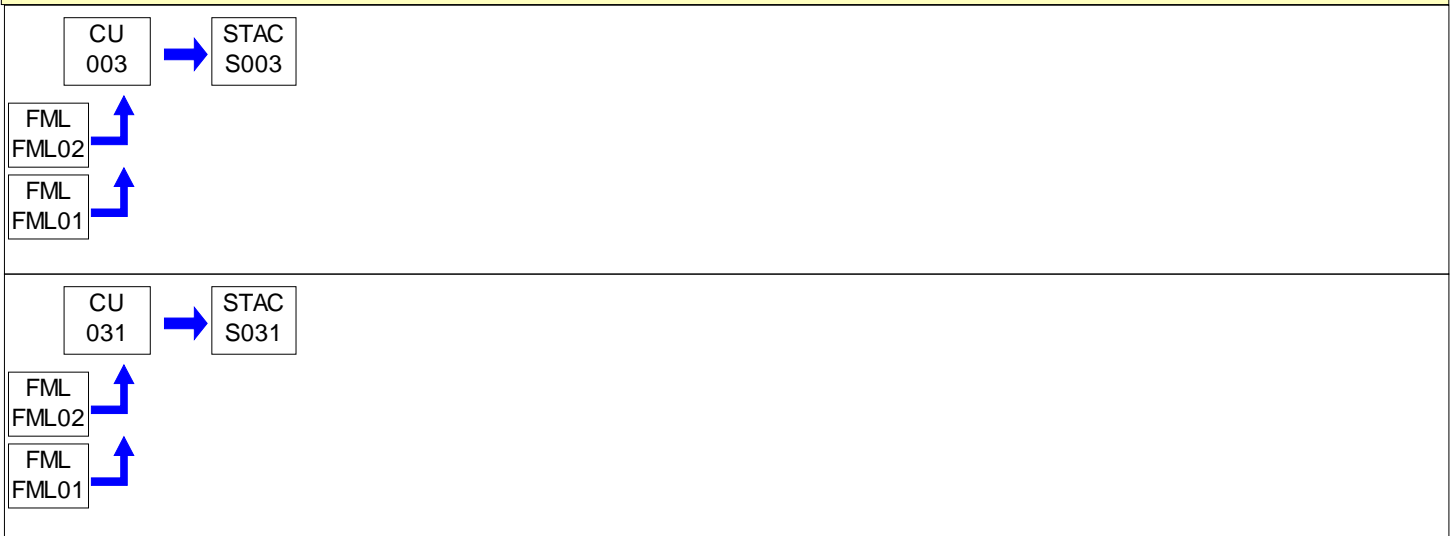
Section H. Miscellaneous

**SECTION A. Site Inventory List**

| Source ID | Source Name | Capacity/Throughput | Fuel/Material |
|-----------|--|---------------------|----------------------|
| 003 | BOILER NO.3 (708) | 9.846 MMBTU/HR | |
| | | 9.850 MCF/HR | Natural Gas |
| | | 118.200 Gal/HR | Propane |
| 031 | BOILER 2 (715) | 14.645 MMBTU/HR | |
| | | 14.700 MCF/HR | Natural Gas |
| | | 176.000 Gal/HR | Propane |
| 101 | LARGE SPRAY DRYER (#1) (510) | 21.000 MMBTU/HR | |
| | | 5,100.000 Lbs/HR | AMORPHOUS PRECIPITA |
| | | 21.000 MCF/HR | Natural Gas |
| | | 252.000 Gal/HR | Propane |
| 103A | STORAGE SILOS | 20,200.000 Lbs/HR | AMORPHOUS PRECIPITA |
| 103B | STORAGE SILO | 7,000.000 Lbs/HR | AMORPHOUS PRECIPITA |
| 107A | GRANULATING EQUIPMENT | 7,800.000 Lbs/HR | AMORPHOUS PRECIPITA |
| 107B | GRANULATING EQUIPMENT | 3,200.000 Lbs/HR | AMORPHOUS PRECIPITA |
| 107C | SILO AND GRANULATOR | 7,100.000 Lbs/HR | AMORPHOUS PRECIPITA |
| 108A | MILLING EQUIPMENT | 12,180.000 Lbs/HR | AMORPHOUS PRECIPITA |
| 109 | SMALL SPRAY DRYER (#2) (806) | 6.600 MMBTU/HR | |
| | | 6.600 MCF/HR | Natural Gas |
| | | 79.000 Gal/HR | Propane |
| | | 1,600.000 Lbs/HR | AMORPHOUS PRECIPITA |
| 110 | COLD PARTS CLEANER | N/A | SOLVENT NAPHTHA |
| 112A | DRYER 3 (0548) | 40.000 MMBTU/HR | |
| | | 480.000 Gal/HR | Propane |
| | | 6,500.000 Lbs/HR | AMORPHOUS PRECIPITA |
| | | 40.000 MCF/HR | Natural Gas |
| 114 | DRYER IV (3548) | 7,000.000 Lbs/HR | AMORPHOUS PRECIPITA |
| | | 24.900 MCF/HR | Natural Gas |
| | | 275.000 Gal/HR | Propane |
| 115 | MILLING EQUIPMENT (3630) | 4,400.000 Lbs/HR | AMORPHOUS SILICON DI |
| 116 | MILLING EQUIPMENT (3650) | 440.000 Lbs/HR | AMORPHOUS SILICON DI |
| 117 | STORAGE SILO (3612) | 4,400.000 Lbs/HR | SILICON DIOXIDE |
| C01 | LARGE SPRAY DRYER (#1) DUST COLLECTOR (0511) | | |
| C03A | STORAGE SILO DUST COLLECTORS | | |
| C03B | STORAGE SILO (103B) DUST COLLECTOR | | |
| C06A | MILLING EQUIPMENT DUST COLLECTORS | | |
| C07B | GRANULATING EQUIPMENT (107B) DUST COLLECTOR | | |
| C07C | SILO AND GRANULATOR (107C) DUST COLLECTOR | | |
| C08A | GRANULATING EQUIPMENT DUST COLLECTORS | | |
| C09 | SMALL SPRAY DRYER (#2) DUST COLLECTOR | | |
| C10 | DRYER #3 DUST COLLECTOR | | |

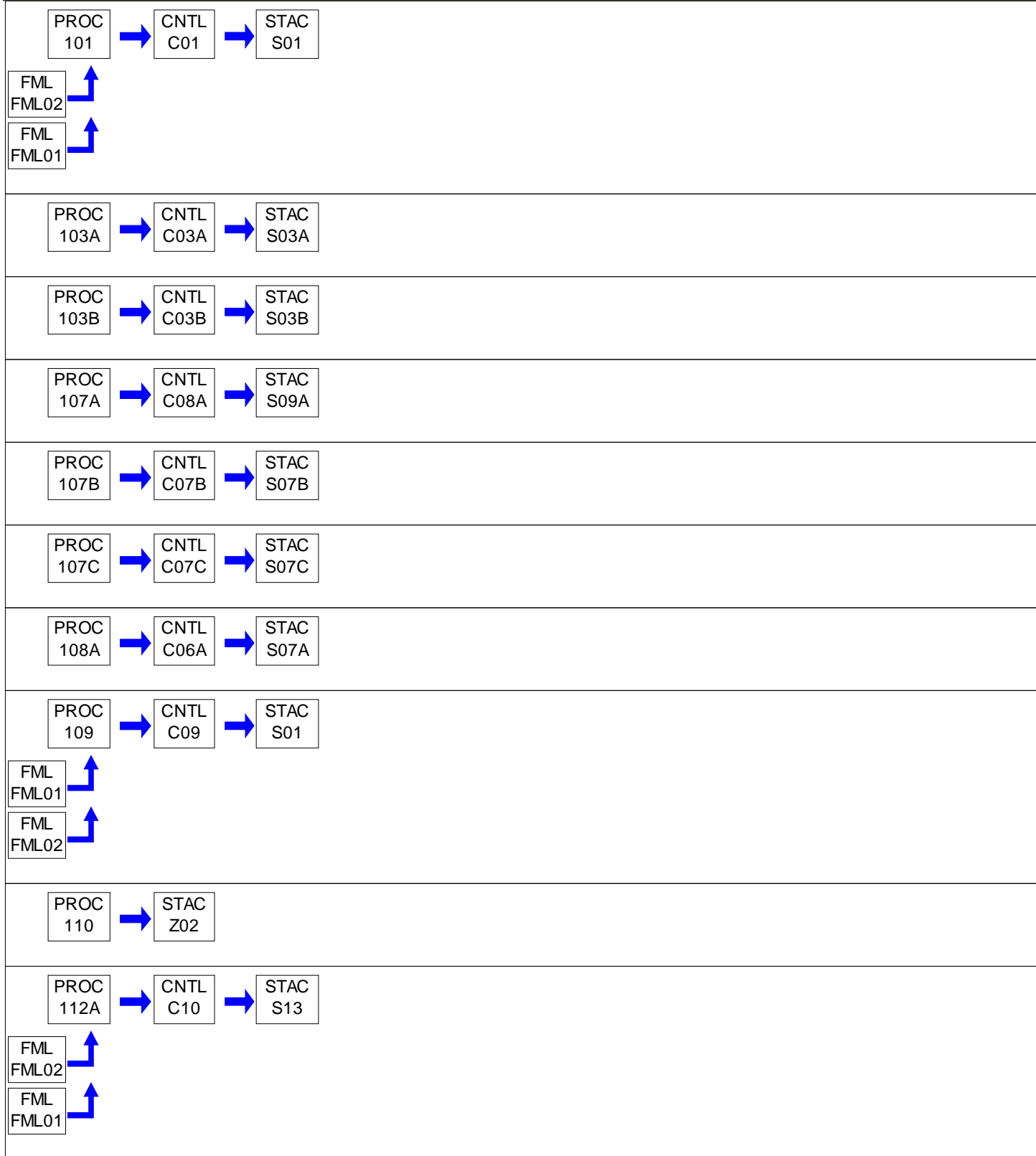
**SECTION A. Site Inventory List**

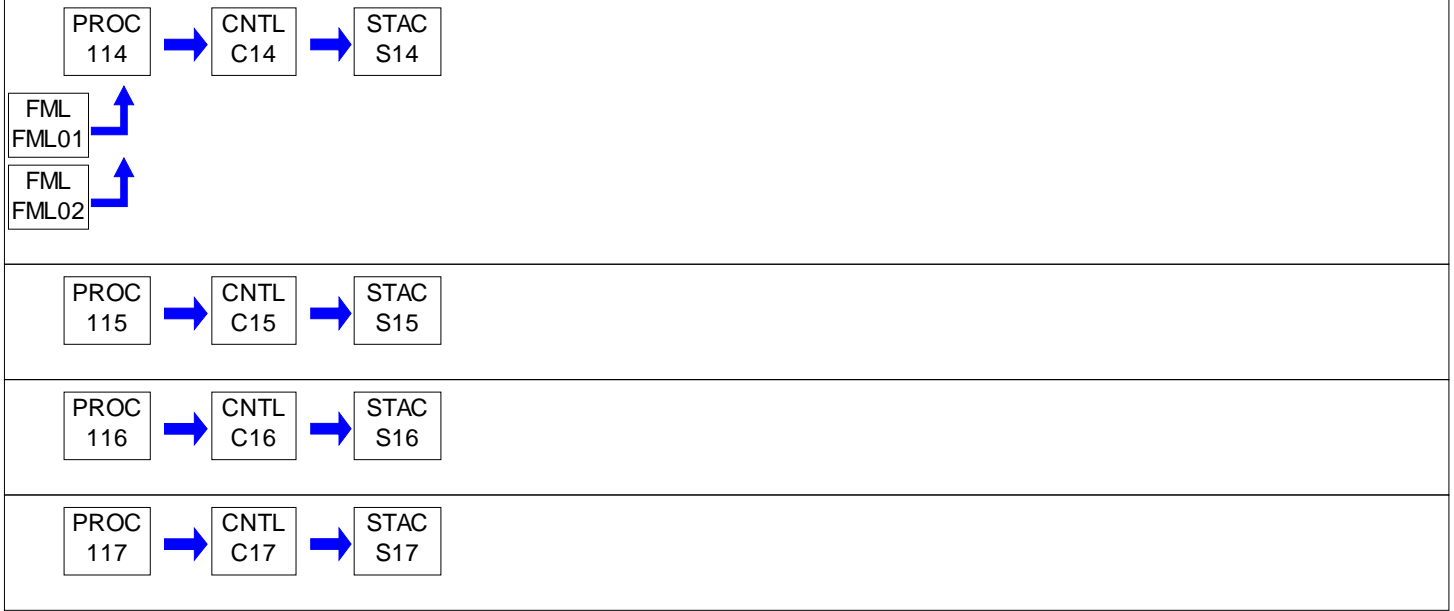
| Source ID | Source Name | Capacity/Throughput | Fuel/Material |
|-----------|---|---------------------|---------------|
| C14 | DRYER IV DUST COLLECTOR | | |
| C15 | MILLING EQUIPMENT (115) DUST COLLECTOR | | |
| C16 | MILLING EQUIPMENT (116) DUST COLLECTOR | | |
| C17 | STORAGE SILO (117) DUST COLLECTOR | | |
| FML01 | 30,000-GAL PROPANE TANKS (2) | | |
| FML02 | NATURAL GAS PIPELINE | | |
| S003 | BOILER 3 STACK | | |
| S01 | LARGE & SMALL SPRAY DRYER DUST COLLECTORS STACK | | |
| S031 | BOILER 2 STACK | | |
| S03A | STORAGE SILO DUST COLLECTOR STACKS | | |
| S03B | STORAGE SILO (103B) DUST COLLECTOR STACK | | |
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| S07B | GRANULATING EQUIPMENT (107B) DUST COLLECTOR STACK | | |
| S07C | SILO AND GRANULATOR (107C) DUST COLLECTOR STACK | | |
| S09A | GRANULATING EQUIPMENT DUST COLLECTOR STACKS | | |
| S13 | DRYER #3 DUST COLLECTOR STACK | | |
| S14 | SPRAY DRYER IV DUST COLLECTOR STACK | | |
| S15 | MILLING EQUIPMENT (115) DUST COLLECTOR STACK | | |
| S16 | MILLING EQUIPMENT (116) DUST COLLECTOR STACK | | |
| S17 | STORAGE SILO (117) DUST COLLECTOR STACK | | |
| Z02 | COLD PARTS CLEANER FUGITIVE EMISSIONS | | |

PERMIT MAPS



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:

**SECTION B. General State Only Requirements**

- (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)

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(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

**SECTION B. General State Only Requirements**

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 shall 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**

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

(1) Construction or demolition of buildings or structures.

(2) Grading, paving and maintenance of roads and streets.

(3) 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.

(4) Clearing of land.

(5) Stockpiling of materials.

(6) Open burning operations.

(7) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting.

(8) Coke oven batteries, provided the fugitive air contaminants emitted from any coke oven battery comply with the standards for visible fugitive emissions in §§ 123.44 and 129.15 (relating to limitations of visible fugitive air contaminants from operation of any coke oven battery; and coke pushing operations).

(9) Sources and classes of sources other than those identified in paragraphs (1)-(8), for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

(i) the emissions are of minor significance with respect to causing air pollution; and

(ii) 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**

No person shall permit fugitive particulate matter (PM) to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code 123.1(a)(1-9), if such emissions are visible at the point the emissions pass outside the person's property.

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

No person shall 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**

No person shall 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 (3) minutes in any one (1) hour.

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

**SECTION C. Site Level Requirements****# 006 [25 Pa. Code §123.42]****Exceptions**

The emission limitations indicated in 25 Pa. Code § 123.41, shall not apply to a visible air contaminant emission in either of the following instances:

- (a) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (b) When the emission results from sources specified in 25 Pa. Code § 123.1(a)(1-9).

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

The permittee shall ensure that emission into the outdoor atmosphere of nitrogen oxides (NO_x) from this facility occurs in such a manner that the rate of the emission does not exceed 24.9 tons/yr, calculated monthly and on a twelve (12)-month rolling sum.

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

The permittee shall ensure that emission into the outdoor atmosphere of PM from this facility occurs in such a manner that the rate of the emission does not exceed 99.9 tons/yr, calculated monthly and on a 12-month rolling sum.

009 [25 Pa. Code §129.14]**Open burning operations**

No person shall permit the open burning of material except the following:

- (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 solely for recreational or ceremonial purposes.
- (e) A fire set solely for cooking food.

II. TESTING REQUIREMENTS.**# 010 [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 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.

III. MONITORING REQUIREMENTS.**# 011 [25 Pa. Code §123.43]****Measuring techniques**

Visible air contaminant emissions shall be measured using either of the following:

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

**SECTION C. Site Level Requirements**

by the Department.

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

The permittee shall calculate the following emissions monthly and on a 12-month rolling sum, using Department-approved methods:

- (a) The total combined NO_x emissions from the facility.
- (b) The total combined PM emissions from the facility.

013 [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); and
- (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.

(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 (if applicable), complaints, monitoring results, and/or Department findings.

IV. RECORDKEEPING REQUIREMENTS.**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of the following emissions from the facility on a monthly and 12-month rolling sum, calculated using Department-approved methods:

- (a) The total combined NO_x emissions from the facility.
- (b) The total combined PM emissions from the facility.

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

All records, reports, and analysis results generated in compliance with the requirements of any section of this permit shall be maintained in accordance with Condition # 020(b), Section B, of this permit, and shall be made available to the Department upon written or verbal request within a reasonable time.

**SECTION C. Site Level Requirements****# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records 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; and
- (c) the corrective action taken, if necessary, to abate the situation and prevent future occurrences.

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

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

- (a) emissions increase of minor significance without notification to the Department.
- (b) de minimis 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.

V. REPORTING REQUIREMENTS.**# 018 [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.

(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; and
- (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

**SECTION C. Site Level Requirements**

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.

019 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. 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 C.F.R. 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 C.F.R. Part 68, and the Federal Chemical Safety Information, Site Security, and Fuels Regulatory Relief Act when a regulated substance listed in 40 C.F.R. § 68.130 is present in a process in more than the threshold quantity at a major facility. The permittee shall submit the RMP to the EPA 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 in 40 C.F.R. § 68.130.
- (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 C.F.R. § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 C.F.R. 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 C.F.R. § 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 C.F.R. Part 68, as part of the certification required under this permit, the permittee shall perform the following:

(1) Submit a compliance schedule for satisfying the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. § 68.10(a).

(2) Certify that this facility is in compliance with all requirements of 40 C.F.R. Part 68 including the registration and submission of the RMP.

(e) If this facility is subject to 40 C.F.R. Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for 5 years in accordance with 40 C.F.R. § 68.200.

(f) When this facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and

**SECTION C. Site Level Requirements**

40 C.F.R. 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 C.F.R. Part 68.

020 [25 Pa. Code §135.3]**Reporting**

(a) The permittee, who has been previously advised by the Department to submit a source report, shall submit by March 1, of each year, a source report for the preceding calendar year. The report shall include information from each previously-reported source(s), a new source(s) which was first operated during the preceding calendar year, and each source(s) modified during the same period that was not previously reported, including any source(s) listed in Section G, of this permit.

(b) The permittee may request an extension of time from the Department for the filing of a source report, and the Department may grant the extension for reasonable cause.

021 [25 Pa. Code §135.4]**Report format**

The permittee shall ensure that source reports are submitted in a format specified by the Department, and contain sufficient information to enable the Department to complete its emission inventory.

VI. WORK PRACTICE REQUIREMENTS.**# 022 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

The permittee shall take all reasonable actions to prevent PM from any source specified in 25 Pa. Code § 123.1(a)(1-9) from becoming airborne. These actions shall include, but not be limited to, the following:

- (a) Use, where possible, of water or suitable chemicals, 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 suitable chemicals on dirt roads, material stockpiles, and other surfaces that may give rise to airborne dusts.
- (c) Paving and maintenance of roadways.
- (d) Prompt removal of earth or other material from paved roads or streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

023 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

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

024 [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.

025 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

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

**SECTION C. Site Level Requirements****VII. ADDITIONAL REQUIREMENTS.**

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

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.

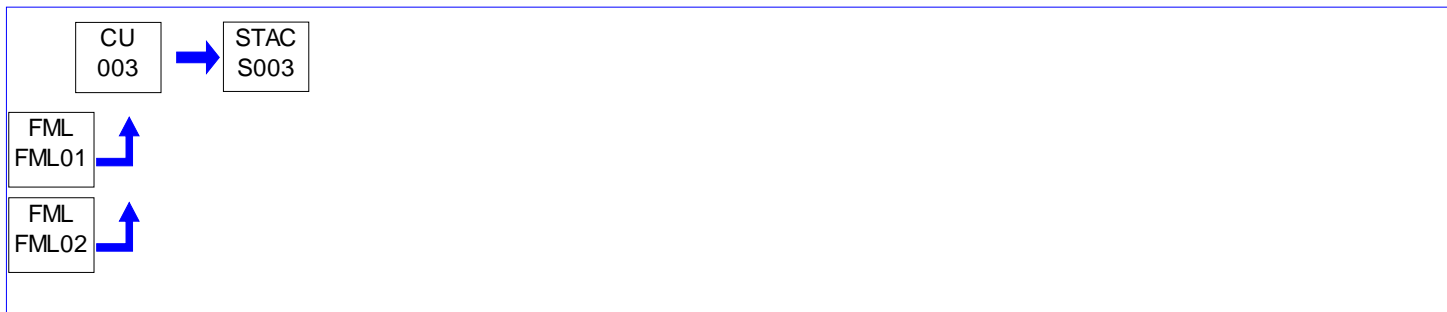
No compliance milestones exist.

**SECTION D. Source Level Requirements**

Source ID: 003

Source Name: BOILER NO.3 (708)

| | | |
|-----------------------------|----------------|-------------|
| Source Capacity/Throughput: | 9.846 MMBTU/HR | |
| | 9.850 MCF/HR | Natural Gas |
| | 118.200 Gal/HR | Propane |

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

001 [25 Pa. Code §123.11]

Combustion units

The permittee shall not permit the emission into the outdoor atmosphere of particulate matter from this combustion unit in excess of 0.4 pound per million Btu of heat input.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that natural gas and propane are the only fuels consumed by this boiler.

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.

For this boiler, the permittee shall monitor the following operating parameters on a monthly basis:

- (a) The hours of operation.
- (b) The type of fuel consumed.
- (c) The amount of fuel consumed.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For this boiler, the permittee shall keep records of the following operating parameters on a monthly basis:

- (a) The hours of operation.

**SECTION D. Source Level Requirements**

- (b) The type of fuel consumed.
- (c) The amount of fuel consumed.

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.

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

VII. ADDITIONAL REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of a natural gas-fired boiler (with propane backup), model no. SE-250, with Economizer, manufactured by Clayton industries. The boiler is rated 9.85 mmBtu/hr heat input. Evonik equipment No. 708.

**SECTION D. Source Level Requirements**

Source ID: 031

Source Name: BOILER 2 (715)

| | | | |
|-----------------------------|---------|----------|-------------|
| Source Capacity/Throughput: | 14.645 | MMBTU/HR | |
| | 14.700 | MCF/HR | Natural Gas |
| | 176.000 | Gal/HR | Propane |

Conditions for this source occur in the following groups: BOILER GROUP

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [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(b).]

The permittee shall ensure that emission into the outdoor atmosphere of NO_x from this boiler, when consuming natural gas, occurs in such a manner that neither of the following occur:

- (a) The rate of the emission is greater than 0.035 lbs/mmBtu heat input.
- (b) The concentration of the emission is greater than 30 ppmvd, corrected to 3% oxygen (O₂).

Fuel Restriction(s).**# 002 [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(b).]

The permittee shall ensure that natural gas and propane are the only fuels consumed by this boiler.

Throughput Restriction(s).**# 003 [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(b).]

The permittee shall ensure that the amount of natural gas consumed by this boiler does not exceed 128 mmcf/yr, calculated monthly as a 12-month rolling sum.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Requirements****III. MONITORING REQUIREMENTS.****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

For this boiler, the permittee shall monitor the hours of operation on a monthly basis.

005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Chapter 122 and § 127.443(b).]

For this boiler, the permittee shall monitor the following operating parameters on a monthly basis:

- (a) The type of fuel consumed.
- (b) The amount of fuel consumed.

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

For this boiler, the permittee shall maintain records of the hours of operation on a monthly basis.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Chapter 122 and § 127.443(b).]

For this boiler, the permittee shall maintain records of the following operating parameters on a monthly basis:

- (a) The type of fuel consumed.
- (b) The amount of fuel consumed.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

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

This source is subject to Subpart Dc of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of the Subpart. In accordance with 40 C.F.R. § 60.4, copies of all requests, reports, applications, submittals, and other communications are required to be submitted to both the EPA and the Department. The EPA copies shall be forwarded to:

Director
Air Protection Division
U.S. EPA, Region III
1650 Arch Street

**SECTION D. Source Level Requirements**

Philadelphia, PA 19103-2029

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of a natural gas-fired boiler (with propane backup), model no. EG354 LNB, manufactured by Clayton Industries. The boiler is equipped with low-NOx burners, and is rated at 14.645 mmBtu/hr heat input. Evonik equipment No. 715.

**SECTION D. Source Level Requirements**

Source ID: 101

Source Name: LARGE SPRAY DRYER (#1) (510)

Source Capacity/Throughput: 21.000 MMBTU/HR

5,100.000 Lbs/HR

AMORPHOUS PRECIPITATED SII

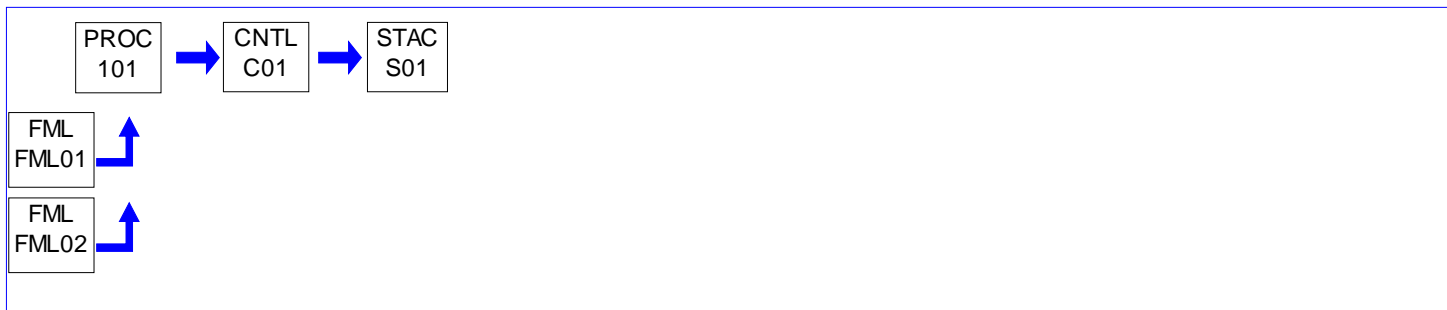
21.000 MCF/HR

Natural Gas

252.000 Gal/HR

Propane

Conditions for this source occur in the following groups: SPRAY DRYER GROUP

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.**# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the differential pressure across the dust collector (Source ID C01; Evonik ID 0511) associated with this spray dryer on an operating day basis.

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

The permittee shall keep records of the differential pressure across the dust collector (Source ID C01; Evonik ID 0511) associated with this spray dryer on an operating day basis.

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

The permittee shall keep records of all preventative maintenance inspections for this spray dryer and the associated dust collector (Source ID C01; Evonik ID 0511). These records shall contain, at a minimum, the following for each inspection:

- The date of the inspection.
- Any routine maintenance performed.
- Any problems or defects.
- Any corrective action(s) taken.

**SECTION D. Source Level Requirements****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

For the dust collector (Source ID C01; Evonik ID 0511) associated with this spray dryer, the permittee shall keep records of the following information whenever the differential pressure alarm set point is reached:

- (a) The date.
- (b) The differential pressure.
- (c) The cause(s).
- (d) The corrective action(s) taken, if necessary to abate the situation and prevent future occurrences.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.**# 005 [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(b).]

For the dust collector (Source ID C01; Evonik ID 0511) associated with this spray dryer, the permittee shall ensure that a sufficient quantity of spare fabric filter bags are kept on hand for immediate replacement of any bags that have become deteriorated.

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

The permittee shall perform the following inspections, in accordance with Condition # 007, Section D (under Source ID 101), of this permit:

- (a) A visual check of this spray dryer, on an operating day basis.
- (b) A visual check of the dust collector (Source ID C01; Evonik ID 0511) associated with the spray dryer, on an operating day basis.
- (c) A manual check of the dust collector associated with the spray dryer to confirm that it is operating properly, on a weekly basis.
- (d) Routine preventative maintenance of the spray dryer, in accordance with the manufacturers' specifications.
- (e) Routine preventative maintenance of the dust collector associated with the spray dryer, on a monthly basis.

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

The permittee shall operate and maintain a differential pressure gauge to indicate the differential pressure across the dust collector (Source ID C01; Evonik ID 0511) associated with this spray dryer. The dust collector shall operate within the differential pressure range of 0.5 to 6.5 inches of water.

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

- (a) This source consists of a spray dryer, model no. S-400R, manufactured by Niro, Inc. The spray dryer is rated at 30,000

**SECTION D. Source Level Requirements**

acfm exhaust gas flow, and is equipped with a natural gas-fired burner (with propane backup) rated at 21 mmBtu/hr heat input. Evonik equipment No. 510.

(b) PM emissions from the spray dryer are ducted to an associated pulse jet dust collector (Source ID C01), model no. 960-K8-TRH22, manufactured by MikroPul, before exhausting into the outdoor atmosphere. The dust collector is fitted with 960 cylindrical fabric filter bags. Evonik equipment No. 0511.

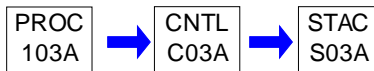
**SECTION D. Source Level Requirements**

Source ID: 103A

Source Name: STORAGE SILOS

Source Capacity/Throughput: 20,200.000 Lbs/HR

AMORPHOUS PRECIPITATED SII

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

(a) The permittee shall ensure that emission into the outdoor atmosphere of total PM (filterable + condensable) from each of the storage silos occurs in such a manner that the concentration of PM in the effluent gas does not exceed 0.02 gr/dscf.

(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 20% for a period or periods aggregating more than 3 minutes in any 1 hour.
- (2) Equal to or greater than 60% at any time.

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 differential pressure across each of the dust collectors (Source ID C03A) associated with these storage silos, as follows:

(a) On a daily basis, when the dust collector is equipped with automatically-reporting differential pressure gauges, as specified in Condition # 009(b), Section D (under Source ID 103A), of this permit.

(b) On a weekly basis, when the dust collector is equipped with non-reporting differential pressure gauges, as specified in Condition # 009(b), Section D (under Source ID 103A), of this permit.

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

The permittee shall keep records of the differential pressure across each of the dust collectors (Source ID C03A) associated with these storage silos, as follows:

(a) On a daily basis, when the dust collector is equipped with automatically-reporting differential pressure gauges, as specified in Condition # 009(b), Section D (under Source ID 103A), of this permit.

(b) On a weekly basis, when the dust collector is equipped with non-reporting differential pressure gauges, as specified in Condition # 009(b), Section D (under Source ID 103A), of this permit.

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

The permittee shall keep records of all preventative maintenance inspections for the dust collectors (Source ID C03A)

**SECTION D. Source Level Requirements**

associated with these storage silos. These records shall contain, at a minimum, the following for each inspection:

- (a) The date of the inspection.
- (b) Any routine maintenance performed.
- (c) Any problems or defects.
- (d) Any corrective action(s) taken.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

1. For the dust collectors (Source ID C03A) associated with these storage silos, the permittee shall keep records of the following information whenever a differential pressure alarm set point is reached:

- (a) The dust collector.
- (b) The date.
- (c) The differential pressure.
- (d) The cause(s).
- (e) The corrective action(s) taken, if necessary to abate the situation and prevent future occurrences.

2. Permittee shall track the poundage of products produced when ammonia addition is required.

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

For the dust collectors (Source ID C03A) associated with these storage silos, the permittee shall ensure that a sufficient quantity of spare fabric filter bags are kept on hand for immediate replacement of any bags that have become deteriorated.

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

The permittee shall perform the following inspections, in accordance with Condition # 004, Section D (under Source ID 103A), of this permit:

- (a) A visual check of each of the dust collectors (Source ID C03A) associated with these storage silos, on an operating day basis.
- (b) A manual check of each of the dust collectors associated with these storage silos to confirm that they are operating properly, on a weekly basis.
- (c) Routine preventative maintenance of each of the dust collectors associated with the storage silos, on a monthly basis.

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.]

**SECTION D. Source Level Requirements**

The permittee shall operate and maintain a pressure gauge to indicate the differential pressure across each of the dust collectors (Source ID C03A) associated with these storage silos. The dust collectors shall be operated and maintained in accordance with the following restrictions:

- (a) Each of the dust collectors equipped with non-reporting differential pressure gauges, as specified in Condition # 009(b), Section D (under Source ID 103A), of this permit, shall operate within the differential pressure range of 1.0 to 6.0 inches of water.
- (b) Each of the dust collectors equipped with automatically-reporting differential pressure gauges, as specified in Condition # 009(b), Section D (under Source ID 103A), of this permit, shall operate within the differential pressure range of 1.0 to 8.0 inches of water.
- (c) An alarm notification system shall visually notify the operator if the differential pressure across any of the dust collectors equipped with automatically-reporting differential pressure gauges reaches 6.0 inches of water.
- (d) An interlock device shall automatically shut down all equipment delivering amorphous precipitated silica to the respective storage silo(s) if the differential pressure across any of the dust collectors equipped with automatically-reporting differential pressure gauges reaches 8.0 inches of water.

VII. ADDITIONAL REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) This source consists of 6 amorphous precipitated silica storage silos, as follows:

| Silo No. | Manufacturer | Volume | Associated Dust Collector No. |
|----------|--------------|----------------------|-------------------------------|
| 604 | Widmann | 1,000 m ³ | 603 |
| 616 | Widmann | 125 m ³ | 615 |
| 690 | Widmann | 500 m ³ | 693 |
| 1614 | Zepellin | 500 m ³ | 1615 |
| 1619 | Zepellin | 125 m ³ | 1620 |
| 2616 | Widmos | 600 m ³ | 2615 |

(b) PM emissions from the storage silos are ducted to associated pulse jet dust collectors (Source ID C03A), as listed below, before exhausting into the outdoor atmosphere. Each dust collector is fitted with cylindrical fabric filter bags and equipped with differential pressure gauges.

| Associated Dust Collector No. | Manufacturer | Model No. | No. of Filter Bags | Differential Pressure Gauge Type |
|-------------------------------|----------------------|--------------|--------------------|----------------------------------|
| 603 | C.P.E. Filters, Inc. | 96 BFR 042 S | 42 | AR |
| 615 | C.P.E. Filters, Inc. | 96 BFR 012 S | 12 | NR |
| 693 | C.P.E. Filters, Inc. | 96 BFR 042 S | 42 | NR |
| 1615 | C.P.E. Filters, Inc. | 96 BFR 012 S | 12 | AR |
| 1620 | MikroPul | 19-8-80 | 19 | AR |
| 2615 | MikroPul | 12-8-100 | 85 | NR |

AR = Automatically-reporting differential pressure gauge

NR = Non-reporting differential pressure gauge

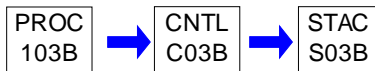
**SECTION D. Source Level Requirements**

Source ID: 103B

Source Name: STORAGE SILO

Source Capacity/Throughput: 7,000.000 Lbs/HR

AMORPHOUS PRECIPITATION

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

(a) The permittee shall ensure that emission into the outdoor atmosphere of total PM (filterable + condensable) from the storage silo occurs in such a manner that the concentration of PM in the effluent gas does not exceed 0.02 gr/dscf, and 0.35 tons per year on a 12-month rolling basis.

(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 20% for a period or periods aggregating more than 3 minutes in any 1 hour.
- (2) Equal to or greater than 60% at any time.

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 differential pressure across the dust collector (Source ID C03B) associated with the storage silo when operating on a daily basis.

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

The permittee shall keep records of all preventative maintenance inspections for the dust collector (Source ID C03B) associated with these storage silo. These records shall contain, at a minimum, the following for each inspection:

- (a) The date of the inspection.
- (b) Any routine maintenance performed.
- (c) Any problems or defects.
- (d) Any corrective action(s) taken.

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

The permittee shall keep records of the differential pressure across the dust collector (Source ID C03B) associated with these storage silo when operating on a daily basis.

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

For the dust collector (Source ID C03B) associated with the storage silo, the permittee shall keep records of the following information whenever a differential pressure alarm set point is reached:

- (a) The dust collector.
- (b) The date.
- (c) The differential pressure.
- (d) The cause(s).
- (e) The corrective action(s) taken, if necessary to abate the situation and prevent future occurrences.

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

For the dust collector (Source ID C03B) associated with the storage silo, the permittee shall ensure that a sufficient quantity of spare fabric filter bags are kept on hand for immediate replacement of any bags that have become deteriorated.

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

The permittee shall perform and record the following inspections, in accordance with Condition # 003 Section D (under Source ID 103B), of this permit:

- (a) A visual check of each of the dust collector (Source ID C03B) associated with the storage silo, on an operating daily basis.
- (b) A manual check of the dust collector associated with the storage silo to confirm that they are operating properly, on a weekly basis.
- (c) Routine preventative maintenance of the dust collector associated with the storage silo, on a monthly basis.

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

The permittee shall operate and maintain a pressure gauge to indicate the differential pressure across the dust collectors (Source ID C03B) associated with the storage silo. The dust collector shall be operated within the normal differential pressure range of 0.5 to 6.0 inches of water.

VII. ADDITIONAL REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

This Source ID consists of the following:

Baghouse 3832 Mikropul #85-8-35; 86 bags, pulse jet AR
Silo No. 3812 (Evonik ID 4619) associated with dust collector 3832.

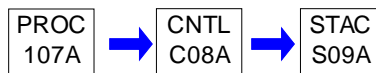
**SECTION D. Source Level Requirements**

Source ID: 107A

Source Name: GRANULATING EQUIPMENT

Source Capacity/Throughput: 7,800.000 Lbs/HR

AMORPHOUS PRECIPITATED SII

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

Except as specified in Condition # 002, Section D (under Source ID 107A), of this permit, the permittee shall ensure that emission into the outdoor atmosphere of PM from each piece of this granulating equipment occurs in such a manner that the concentration of PM in the effluent gas does not exceed 0.04 gr/dscf.

002 [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(b).]

The permittee shall ensure that emission into the outdoor atmosphere of PM at the outlet of dust collector no. 6132 associated with this granulating equipment occurs in such a manner that neither of the following occur:

- (a) The concentration of the emission is greater than 0.02 gr/dscf.
- (b) The rate of the emission is greater than 0.43 lbs/hr or 1.88 tons/yr.

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 differential pressure across each of the dust collectors (Source ID C08A) associated with this granulating equipment, as follows:

- (a) On a daily basis, when the dust collector is equipped with automatically-reporting differential pressure gauges, as specified in Condition # 012(b), Section D (under Source ID 107A), of this permit.
- (b) On a weekly basis, when the dust collector is equipped with non-reporting differential pressure gauges, as specified in Condition # 012(b), Section D (under Source ID 107A), of this permit.

IV. RECORDKEEPING REQUIREMENTS.**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of the differential pressure across each of the dust collectors (Source ID C08A) associated with this granulating equipment, as follows:

- (a) On a daily basis, when the dust collector is equipped with automatically-reporting differential pressure gauges, as specified in Condition # 012(b), Section D (under Source ID 107A), of this permit.

**SECTION D. Source Level Requirements**

(b) On a weekly basis, when the dust collector is equipped with non-reporting differential pressure gauges, as specified in Condition # 012(b), Section D (under Source ID 107A), of this permit.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep records of all preventative maintenance inspections for the dust collectors (Source ID C08A) associated with this granulating equipment. These records shall contain, at a minimum, the following for each inspection:

- (a) The date of the inspection.
- (b) Any routine maintenance performed.
- (c) Any problems or defects.
- (d) Any corrective action(s) taken.

006 [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(b).]

The permittee shall keep a copy of the manufacturer's specifications for dust collector no. 6132 associated with this granulating equipment.

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

For the dust collectors (Source ID C08A) associated with this granulating equipment, the permittee shall keep records of the following information whenever a differential pressure alarm set point is reached:

- (a) The dust collector.
- (b) The date.
- (c) The differential pressure.
- (d) The cause(s).
- (e) The corrective action(s) taken, if necessary to abate the situation and prevent future occurrences.

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

For the dust collectors (Source ID C08A) associated with this granulating equipment, the permittee shall ensure that a sufficient quantity of spare fabric filter bags are kept on hand for immediate replacement of any bags that have become deteriorated.

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

The permittee shall perform the following inspections, in accordance with Condition # 005, Section D (under Source ID 107A), of this permit:

**SECTION D. Source Level Requirements**

- (a) A visual check of each piece of this granulating equipment, on an operating day basis.
- (b) A visual check of each of the dust collectors (Source ID C08A) associated with the granulating equipment, on an operating day basis.
- (c) A manual check of each of the dust collectors associated with the granulating equipment to confirm that they are operating properly, on a weekly basis.
- (d) Routine preventative maintenance of each piece of the granulating equipment, in accordance with the manufacturers' specifications.
- (e) Routine preventative maintenance of each of the dust collectors associated with the granulating equipment, on a monthly basis.

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

The permittee shall operate and maintain a pressure gauge to indicate the differential pressure across each of the dust collectors (Source ID C08A) associated with this granulating equipment. The dust collectors shall be operated and maintained in accordance with the following restrictions:

- (a) Each of the dust collectors equipped with non-reporting differential pressure gauges, as specified in Condition # 012(b), Section D (under Source ID 107A), of this permit, shall operate within the differential pressure range of 1.0 to 6.0 inches of water.
- (b) Each of the dust collectors equipped with automatically-reporting differential pressure gauges, as specified in Condition # 012(b), Section D (under Source ID 107A), of this permit, shall operate within the differential pressure range of 1.0 to 8.0 inches of water.
- (c) An alarm notification system shall visually notify the operator if the differential pressure across any of the dust collectors equipped with automatically-reporting differential pressure gauges reaches 6.0 inches of water.
- (d) An interlock device shall automatically shut down all equipment delivering amorphous precipitated silica to the respective granulating equipment if the differential pressure across any of the dust collectors equipped with automatically-reporting differential pressure gauges reaches 8.0 inches of water.

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(b).]

The permittee shall ensure that dust collector no. 6132 associated with this granulating equipment is operated and maintained in accordance with the following restrictions:

- (a) The dust collector shall maintain a minimum PM removal efficiency of 99%.
- (b) The exhaust gas flow from the dust collector shall not exceed 2,500 acfm.

VII. ADDITIONAL REQUIREMENTS.**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) This granulating equipment source grouping consists of 2 granulators (Wesseling 1 & 2) manufactured by Degussa Corp. and three (3) associated silos, as follows:

| Granulator | Intermediate Dust Collector No. | Associated Silo(s) No. |
|--------------------|---------------------------------|------------------------|
| Wesseling 1 (1622) | N/A | 1630 |

**SECTION D. Source Level Requirements**

Wesseling 2 (6160) 6132 2804, 2812

| Silo No. | Manufacturer | Volume | Associated Dust Collector(s) No. |
|----------|--------------|--------------------|----------------------------------|
| 1630 | Widmann | 500 m ³ | |
| 2804 | Widmos | 130 m ³ | 2803, 6132 |
| 2812 | Widmos | 555 m ³ | |

(b) PM emissions from the granulating equipment are ducted to associated dust collectors (Source ID C08A), as listed below, before exhausting into the outdoor atmosphere. Each dust collector is fitted with cylindrical fabric filter bags and equipped with non-reporting differential pressure gauges.

| Associated Dust Collector No. | Manufacturer | Model No. | Type | No. of Filter Bags | Diff. Pressure Gauge Type |
|-------------------------------|----------------------|-------------|------------------|--------------------|---------------------------|
| 2803 | MikroPul | 85-8-35 | Pulse Jet | 85 | AR |
| 6132 | C.P.E. Filters, Inc. | 96 FR 054 S | Reverse Air Flow | 54 | AR |

NR = Non-reporting differential pressure gauge

AR = Automatically-reporting differential pressure gauge

**SECTION D. Source Level Requirements**

Source ID: 107B

Source Name: GRANULATING EQUIPMENT

Source Capacity/Throughput: 3,200.000 Lbs/HR

AMORPHOUS PRECIPITATION

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [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(b).]

(a) The permittee shall ensure that emission into the outdoor atmosphere of total PM (filterable + condensable) at the outlet of dust collector no. 6132 associated with this granulating equipment occurs in such a manner that neither of the following occur:

- (1) The concentration of the emission is greater than 0.02 gr/dscf.
- (2) The rate of the emission is greater than 0.38 lbs/hr or 1.66 tons/yr.

(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 20% for a period or periods aggregating more than 3 minutes in any 1 hour.
- (2) Equal to or greater than 60% at any time.

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 differential pressure across the dust collector (Source ID C07B) associated with this granulating equipment on a daily basis.

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

The permittee shall keep records of the differential pressure across the dust collector (Source ID C07B) associated with this granulating equipment on a daily basis.

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

The permittee shall keep records of all preventative maintenance inspections for the dust collector (Source ID C07B) associated with this granulating equipment. These records shall contain, at a minimum, the following for each inspection:

- (a) The date of the inspection.
- (b) Any routine maintenance performed.

**SECTION D. Source Level Requirements**

(c) Any problems or defects.

(d) Any corrective action(s) taken.

005 [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(b).]

The permittee shall keep a copy of the manufacturer's specifications for the dust collector associated with this granulating equipment.

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

For the dust collector (Source ID C07B) associated with this granulating equipment, the permittee shall keep records of the following information whenever a differential pressure alarm set point is reached:

(a) The dust collector.

(b) The date.

(c) The differential pressure.

(d) The cause(s).

(e) The corrective action(s) taken, if necessary to abate the situation and prevent future occurrences.

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

For the dust collector (Source ID C07B) associated with this granulating equipment, the permittee shall ensure that a sufficient quantity of spare fabric filter bags are kept on hand for immediate replacement of any bags that have become deteriorated.

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

The permittee shall perform and record the following inspections, in accordance with Condition # 004, Section D (under Source ID 107B), of this permit:

(a) A visual check of each piece of this granulating equipment, on an operating daily basis.

(b) A visual check of each of the dust collector (Source ID C07B) associated with the granulating equipment, on an operating day basis.

(c) A manual check of the dust collector associated with the granulating equipment to confirm that they are operating properly, on a weekly basis.

(d) Routine preventative maintenance of each piece of the granulating equipment, in accordance with the manufacturer's specifications.

(e) Routine preventative maintenance of each of the dust collector associated with the granulating equipment, on a

**SECTION D. Source Level Requirements**

monthly basis.

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

The permittee shall operate and maintain a pressure gauge to indicate the differential pressure across the dust collector (Source ID C07B) associated with this granulating equipment. The dust collector shall be operated within the normal differential pressure range of 0.5 to 6.0 inches of water.

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(b).]

The permittee shall ensure that the dust collector (6232) associated with this granulating equipment is operated and maintained in accordance with the following restrictions:

- (a) The dust collector shall maintain a minimum PM removal efficiency of 99%.
- (b) The exhaust gas flow from the dust collector shall not exceed 2,200 acfm.

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

This Source ID consists of the following:

Granulator - Wesseling 3 (Unit ID # 6260)
Intermediate Dust Collector No. 6232
Associated Silo(s) No. 2804 and 2812

Silo No. 2804 is manufactured by Widmos, volume of 130 cubic feet, associated dust collector(s) No. 2803 and 6132

Silo No. 2812 is manufactured by Widmos, volume of 555 cubic feet.

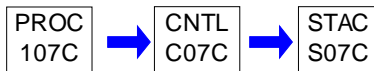
**SECTION D. Source Level Requirements**

Source ID: 107C

Source Name: SILO AND GRANULATOR

Source Capacity/Throughput: 7,100.000 Lbs/HR

AMORPHOUS PRECIPITATION

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [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(b).]

(a) The permittee shall ensure that emission into the outdoor atmosphere of total PM (filterable + condensable) at the outlet of dust collector occurs in such a manner that neither of the following occur:

- (1) The concentration of the emission is greater than 0.02 gr/dscf.
- (2) The rate of the emission is greater than 0.77 lbs/hr or 3.37 tons/yr.

(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 20% for a period or periods aggregating more than 3 minutes in any 1 hour.
- (2) Equal to or greater than 60% at any time.

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 differential pressure across the dust collector (Source ID C07C) associated with this granulating equipment on a daily basis.

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

The permittee shall keep records of all preventative maintenance inspections for the dust collector (Source ID C07C) associated with this granulating equipment. These records shall contain, at a minimum, the following for each inspection:

- (a) The date of the inspection.
- (b) Any routine maintenance performed.
- (c) Any problems or defects.
- (d) Any corrective action(s) taken.

**SECTION D. Source Level Requirements****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of the differential pressure across the dust collector (Source ID C07C) associated with this granulating equipment on a daily basis.

005 [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(b).]

The permittee shall keep a copy of the manufacturer's specifications for the dust collector.

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

For the dust collector (Source ID C07C), the permittee shall keep records of the following information whenever a differential pressure alarm set point is reached:

- (a) The dust collector.
- (b) The date.
- (c) The differential pressure.
- (d) The cause(s).
- (e) The corrective action(s) taken, if necessary to abate the situation and prevent future occurrences.

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

For the dust collector (Source ID C07C) associated with this granulating equipment, the permittee shall ensure that a sufficient quantity of spare fabric filter bags are kept on hand for immediate replacement of any bags that have become deteriorated.

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

The permittee shall perform and record the following inspections, in accordance with Condition # 003, Section D (under Source ID 107C), of this permit:

- (a) A visual check of each piece of this granulating equipment, on an operating daily basis.
- (b) A visual check of each of the dust collector (Source ID C07C) associated with the granulating equipment, on an operating day basis.
- (c) A manual check of the dust collector associated with the granulating equipment to confirm that they are operating properly, on a weekly basis.
- (d) Routine preventative maintenance of each piece of the granulating equipment, in accordance with the manufacturer's specifications.
- (e) Routine preventative maintenance of each of the dust collector associated with the granulating equipment, on a

**SECTION D. Source Level Requirements**

monthly basis.

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

The permittee shall operate and maintain a pressure gauge to indicate the differential pressure across the dust collector (Source ID C07C) associated with this granulating equipment. The dust collector shall be operated within the normal differential pressure range of 0.1 to 10 inches of water.

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(b).]

The permittee shall ensure that the dust collector associated with the source ID # 107C is operated and maintained in accordance with the following restrictions:

- (a) The dust collector shall maintain a minimum PM removal efficiency of 99%.
- (b) The exhaust gas flow from the dust collector shall not exceed 2,500 acfm.

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

(a) This granulating equipment source consists of one (1) granulator (Wesseling 4) manufactured by Evonik Corporation and one (1) associated silo, as follows:

| Granulator | Intermediate Dust Collector No | Associated Silo(s) No |
|-----------------------------|--------------------------------|-----------------------|
| Wesseling 4 (Unit ID #4622) | None | 4619 |

| Silo No. | Manufacturer | Volume | Associated Dust Collector(s) No. |
|----------|--------------|--------------------|----------------------------------|
| 4619 | Zepellin | 140 m ³ | 4620 |

(b) PM emissions from the granulating equipment are ducted to associated dust collectors (Source ID 107C), as listed below, before exhausting into the outdoor atmosphere. Each dust collector is fitted with cylindrical fabric filter bags and equipped with automatic-reporting differential pressure gauges.

| Associated Dust collector No. | Manufacturer | Model No. | Type | No. of bags | Diff. Pressure Gauge Type |
|-------------------------------|--------------|-----------|-----------|-------------|---------------------------|
| 4620 | AeroPulse | RB-86-8-N | Pulse jet | 86 | AR |

AR = Automatically-reporting differential pressure gauge

Note: Associated recycle dust collector (no. 627), model no. ITR-2-60, manufactured by MikroPul; which captures recycle powder from packers and granulators and returns to silo 4619.

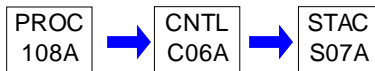
**SECTION D. Source Level Requirements**

Source ID: 108A

Source Name: MILLING EQUIPMENT

Source Capacity/Throughput: 12,180.000 Lbs/HR

AMORPHOUS PRECIPITATED SII

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

The permittee shall ensure that emission into the outdoor atmosphere of PM from each piece of this milling equipment occurs in such a manner that the concentration of PM in the effluent gas does not exceed 0.04 gr/dscf.

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 differential pressure across each of the dust collectors (Source ID C06A) associated with this milling equipment, as follows:

- (a) On a daily basis, when the dust collector is equipped with automatically-reporting differential pressure gauges.
- (b) On a weekly basis, when the dust collector is equipped with non-reporting differential pressure gauges.

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

1. The permittee shall keep records of the differential pressure across each of the dust collectors (Source ID C06A) associated with this milling equipment, as follows:

- (a) On a daily basis, when the dust collector is equipped with automatically-reporting differential pressure gauges.
- (b) On a weekly basis, when the dust collector is equipped with non-reporting differential pressure gauges.

2. Permittee shall track the poundage of products produced when ammonia addition is required.

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

The permittee shall keep records of all preventative maintenance inspections for the dust collectors (Source ID C06A) associated with this milling equipment. These records shall contain, at a minimum, the following for each inspection:

- (a) The date of the inspection.
- (b) Any routine maintenance performed.
- (c) Any problems or defects.

**SECTION D. Source Level Requirements**

(d) Any corrective action(s) taken.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

For the dust collectors (Source ID C06A) associated with this milling equipment, the permittee shall keep records of the following information whenever a differential pressure alarm set point is reached:

- (a) The dust collector.
- (b) The date.
- (c) The differential pressure.
- (d) The cause(s).
- (e) The corrective action(s) taken, if necessary to abate the situation and prevent future occurrences.

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

For the dust collectors (Source ID C06A) associated with this milling equipment, the permittee shall ensure that a sufficient quantity of spare fabric filter bags are kept on hand for immediate replacement of any bags that have become deteriorated.

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

The permittee shall perform the following inspections, in accordance with Condition # 004, Section D (under Source ID 108A), of this permit:

- (a) A visual check of each piece of this milling equipment, on an operating day basis.
- (b) A visual check of the each of the dust collectors (Source ID C06A) associated with the milling equipment, on an operating day basis.
- (c) A manual check of each of the dust collectors associated with the milling equipment to confirm that they are operating properly, on a weekly basis.
- (d) Routine preventative maintenance of each piece of the milling equipment, in accordance with the manufacturers' specifications.
- (e) Routine preventative maintenance of each of the dust collectors associated with the milling equipment, on a monthly basis.

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

The permittee shall operate and maintain a pressure gauge to indicate the differential pressure across each of the dust collectors (Source ID C06A) associated with this milling equipment. The dust collectors shall be operated and maintained in accordance with the following restrictions:

**SECTION D. Source Level Requirements**

(a) Each of the dust collectors equipped with non-reporting differential pressure gauges, as specified in Condition # 009(b), Section D (under Source ID 108A), of this permit, shall operate within the differential pressure range of 1.0 to 6.0 inches of water.

(b) Each of the dust collectors equipped with automatically-reporting differential pressure gauges, as specified in Condition # 009(b), Section D (under Source ID 1078), of this permit, shall operate within the differential pressure range of 1.0 to 8.0 inches of water.

(c) An alarm notification system shall visually notify the operator if the differential pressure across any of the dust collectors equipped with automatically-reporting differential pressure gauges reaches 6.0 inches of water.

(d) An interlock device shall automatically shut down all equipment delivering amorphous precipitated silica to the respective milling equipment if the differential pressure across any of the dust collectors equipped with automatically-reporting differential pressure gauges reaches 8.0 inches of water.

VII. ADDITIONAL REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) This milling equipment source grouping consists of 7 mills and 6 associated silos, as follows:

| Mill Type | Manufacturer | Model No. | Intermediate Dust Collector No. | Associated Silo(s) No. |
|----------------------|--------------------|-----------------------|---------------------------------|------------------------|
| Impact Mill | Alpine | 630UP | 676 | 664, 684 |
| Roller Mill / Hopper | Neuman & Esser | PM5 | 1609 / 1628 | 684 |
| Air Jet Mills (3) | Fluid Energy Aljet | Jet-O-Mizer 0405 CSNL | N/A | 635, 670, 677 |
| AFG Jet Mill | Alpine | AFG 400 | 2626 | 670, 677 |
| ZPS Flatting Mill | Alpine | ZPS 200/4 | 2645 | 670, 2657 |

| Silo No. | Manufacturer | Volume | Associated Dust Collector No. |
|----------|----------------|----------------------|-------------------------------|
| 635 | Widmann | 500 m ³ | 633 |
| 664 | Widmann | 1,000 m ³ | 663 |
| 670 | Zepellin | 125 m ³ | 671 |
| 677 | Widmann | 125 m ³ | 698 |
| 684 | Modern Welding | 125 m ³ | 685 |
| 2657 | Zepellin | 130 m ³ | 2658 |

(b) PM emissions from the milling equipment are ducted to associated pulse jet dust collectors (Source ID C06A), as listed below, before exhausting into the outdoor atmosphere. Each dust collector is fitted with cylindrical fabric filter bags and equipped with differential pressure gauges.

| Associated Dust Collector No. | Manufacturer | Model No. | No. of Filter Bags | Differential Pressure Gauge Type |
|-------------------------------|----------------------|--------------|--------------------|----------------------------------|
| 633 | MikroPul | 55-8-55 | 55 | NR |
| 663 | C.P.E. Filters, Inc. | 96 BFR 042 S | 42 | AR |
| 671 | MikroPul | 85-8-35 | 85 | NR |
| 676 | MikroPul | 81-58-45 | 81 | AR |

**SECTION D. Source Level Requirements**

| | | | | | |
|------|----------|---------------------|----|-----|----|
| 685 | MikroPul | 42-8-65 | 42 | | NR |
| 698 | MikroPul | 85-9-35 | 85 | | NR |
| 1609 | MikroPul | 55W-8-25 | 55 | | NR |
| 1628 | MikroPul | 12-8-100 | 12 | | NR |
| 2626 | MikroPul | 69-8-120C | 69 | | AR |
| 2645 | MikroPul | 104-45-RT-10-90-TRV | | 104 | AR |
| 2658 | MikroPul | 85-8-35 | 85 | | AR |

NR = Non-reporting differential pressure gauge
AR = Automatically-reporting differential pressure gauge

**SECTION D. Source Level Requirements**

Source ID: 109

Source Name: SMALL SPRAY DRYER (#2) (806)

Source Capacity/Throughput: 6.600 MMBTU/HR

6.600 MCF/HR

Natural Gas

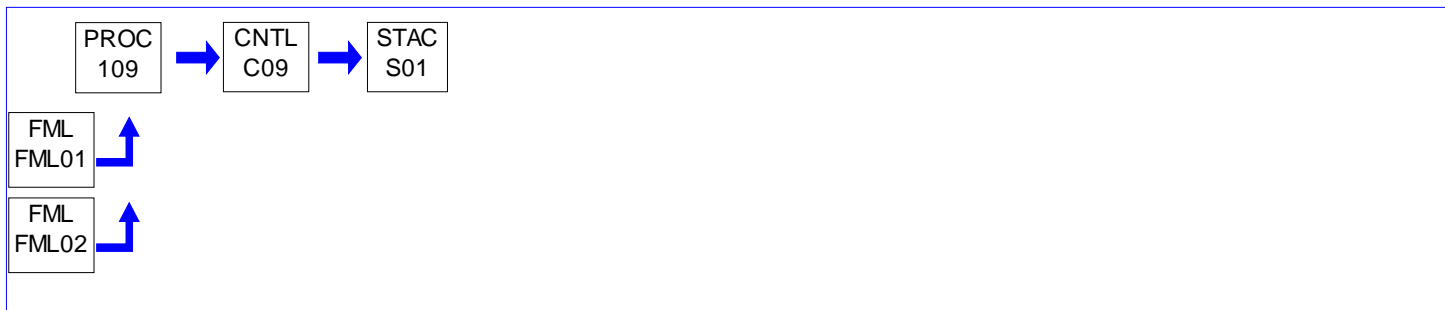
79.000 Gal/HR

Propane

1,600.000 Lbs/HR

AMORPHOUS PRECIPITATED SII

Conditions for this source occur in the following groups: SPRAY DRYER GROUP

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.**# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the differential pressure across the dust collector (Source ID C09; Evonik ID 0807) associated with this spray dryer on an operating day basis.

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

The permittee shall keep records of the differential pressure across the dust collector (Source ID C09; Evonik ID 0807) associated with this spray dryer on an operating day basis.

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

The permittee shall keep records of all preventative maintenance inspections for this spray dryer and the associated dust collector (Source ID C09; Evonik ID 0807). These records shall contain, at a minimum, the following for each inspection:

- The date of the inspection.
- Any routine maintenance performed.
- Any problems or defects.
- Any corrective action(s) taken.

**SECTION D. Source Level Requirements****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

For the dust collector (Source ID C09; Evonik ID 0807) associated with this spray dryer, the permittee shall keep records of the following information whenever the differential pressure alarm set point is reached:

- (a) The date.
- (b) The differential pressure.
- (c) The cause(s).
- (d) The corrective action(s) taken, if necessary to abate the situation and prevent future occurrences.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.**# 005 [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(b).]

For the dust collector (Source ID C09; Evonik ID 0807) associated with this spray dryer, the permittee shall ensure that a sufficient quantity of spare fabric filter bags are kept on hand for immediate replacement of any bags that have become deteriorated.

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

The permittee shall perform the following inspections, in accordance with Condition # 007, Section D (under Source ID 109), of this permit:

- (a) A visual check of this spray dryer, on an operating day basis.
- (b) A visual check of the dust collector (Source ID C09; Evonik ID 0807) associated with the spray dryer, on an operating day basis.
- (c) A manual check of the dust collector associated with the spray dryer to confirm that it is operating properly, on a weekly basis.
- (d) Routine preventative maintenance of the spray dryer, in accordance with the manufacturers' specifications.
- (e) Routine preventative maintenance of the dust collector associated with the spray dryer, on a monthly basis.

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

The permittee shall operate and maintain a differential pressure gauge to indicate the differential pressure across the dust collector (Source ID C09; Evonik ID 0807) associated with this spray dryer. The dust collector shall operate within the differential pressure range of 0.5 to 6.5 inches of water.

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

- (a) This source consists of a spray dryer, model no. S-125R, manufactured by Niro, Inc. The spray dryer is rated at 15,000

**SECTION D. Source Level Requirements**

acfm exhaust gas flow, and is equipped with a natural gas-fired burner (with propane backup) rated at 6.6 mMBtu/hr heat input.

(b) PM emissions from the spray dryer are ducted to an associated pulse jet dust collector (Source ID C09; Evonik ID 0807), model no. 320-K8-TRH22, manufactured by MikroPul, before exhausting into the outdoor atmosphere. The dust collector is fitted with 320 cylindrical fabric filter bags.

**SECTION D. Source Level Requirements**

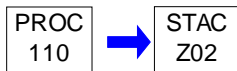
Source ID: 110

Source Name: COLD PARTS CLEANER

Source Capacity/Throughput:

N/A

SOLVENT NAPHTHA

**I. RESTRICTIONS.**

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

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.

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

IV. RECORDKEEPING REQUIREMENTS.**# 001 [25 Pa. Code §129.63]****Degreasing operations**

(a) For this cold parts cleaner, the permittee shall keep records of the following information:

- (1) The name and address of the solvent supplier.
- (2) The type of solvent including the product or vendor identification number.
- (3) The vapor pressure of the solvent measured in mm Hg at 20 °C.

(b) An invoice, bill of sale, certificate that corresponds to the number of sales, CPDS, SDS, or other appropriate documentation acceptable to the Department may be used to comply with (a), above.

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.**# 002 [25 Pa. Code §129.63]****Degreasing operations**

The permittee shall ensure that this cold parts cleaner is equipped with a cover that remains closed at all times except during cleaning of parts or the addition or removal of solvent.

003 [25 Pa. Code §129.63]**Degreasing operations**

The permittee shall ensure that this cold parts cleaner is operated in accordance with the following procedures:

- (a) Waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.

**SECTION D. Source Level Requirements**

(b) Flushing of parts using a flexible hose or other flushing device shall be performed only within the parts cleaner. The solvent spray shall be a solid fluid stream, not an atomized or shower spray.

(c) Sponges, fabric, wood, leather, paper products, and other absorbent materials may not be cleaned in the parts cleaner.

(d) Air-agitated solvent baths may not be used.

(e) Spills during solvent transfer and use of the parts cleaner shall be cleaned up immediately.

004 [25 Pa. Code §129.63]**Degreasing operations**

The permittee shall ensure that this cold parts cleaner has a permanent, conspicuous label summarizing the operating requirements indicated in Condition # 003, Section D (under Source ID 110), of this permit. In addition, the label shall include the following discretionary good operating practices:

(a) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while draining. During the draining, tipping, or rotating, the parts should be positioned so that solvent drains directly back to the parts cleaner.

(b) When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.

(c) Work area fans should be located and positioned so that they do not blow across the openings of the parts cleaner.

005 [25 Pa. Code §129.63]**Degreasing operations**

The permittee shall not use any solvent in this cold parts cleaner that has a vapor pressure equal to or greater than 1.0 mm Hg and a VOC content greater than 5%, by weight, measured at 20 °C (68 °F).

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

This source consists of a remote reservoir cold parts cleaner, Model No. DMD 236, manufactured by Graymills. The cold parts cleaner uses solvent naphtha as the solvent, and has a solvent capacity of 20 gal.

**SECTION D. Source Level Requirements**

Source ID: 112A

Source Name: DRYER 3 (0548)

Source Capacity/Throughput:

40.000 MMBTU/HR

480.000 Gal/HR

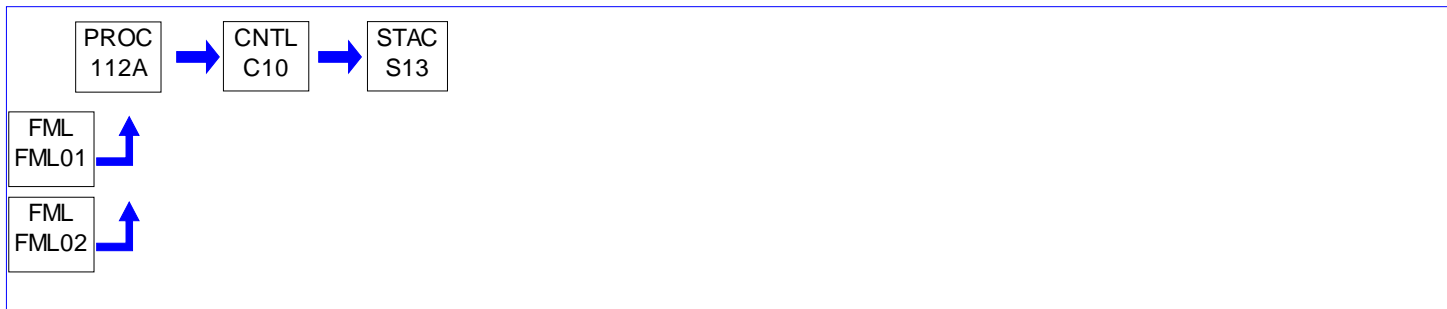
Propane

6,500.000 Lbs/HR

AMORPHOUS PRECIPITATED SII

40.000 MCF/HR

Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall ensure that emission into the outdoor atmosphere of PM from this dryer occurs in such a manner that the concentration of PM in the effluent gas does not exceed 0.04 gr/dscf.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the total NOx emissions for the spray dryer to less than 2.58 lb/hr and 11.28 tpy calculated on a 12-month rolling sum.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that natural gas and propane are the only fuels consumed by this dryer.

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.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the differential pressure across the dust collector (Source ID C10; Evonik ID 554) associated with this dryer on an operating day basis.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For this dryer, the permittee shall monitor the following operating parameters on a monthly basis:

- (a) The hours of operation.
- (b) The type of fuel consumed.

**SECTION D. Source Level Requirements**

(c) The amount of fuel consumed.

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

The permittee shall calculate the total NOx emissions for the spray dryer in pounds per hour and tons per year calculated on a 12-month rolling sum.

IV. RECORDKEEPING REQUIREMENTS.**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of all preventative maintenance inspections for this dryer and the associated dust collector (Source ID C10; Evonik ID 554). These records shall contain, at a minimum, the following for each inspection:

- (a) The date of the inspection.
- (b) Any routine maintenance performed.
- (c) Any problems or defects.
- (d) The corrective action(s) taken.

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

For the dust collector (Source ID C10; Evonik ID 554) associated with this dryer, the permittee shall keep records of the following information whenever the differential pressure alarm set point is reached:

- (a) The date.
- (b) The differential pressure.
- (c) The cause(s).
- (d) The corrective action(s) taken, if necessary to abate the situation and prevent future occurrences.

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

For this dryer, the permittee shall keep records of the following operating parameters on a monthly basis:

- (a) The hours of operation.
- (b) The type of fuel consumed.
- (c) The amount of fuel consumed.

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

The permittee shall keep records of the differential pressure across the dust collector (Source ID C10; Evonik ID 554) associated with this dryer on an operating day basis.

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

The permittee shall keep records of the total NOx emissions for the spray dryer in pounds per hour and tons per year calculated on a 12-month rolling sum to demonstrate compliance with the NOx emission limits for this Source.

**SECTION D. Source Level Requirements****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.**# 012 [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(b).]

For the dust collector (Source ID C10; Evonik ID 554) associated with this dryer, the permittee shall ensure that a sufficient quantity of spare fabric filter bags are kept on hand for immediate replacement of any bags that have become deteriorated.

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

The permittee shall perform the following inspections, in accordance with Condition # 008, Section D (under Source ID 112A), of this permit:

- (a) A visual check of this dryer, on an operating day basis.
- (b) A visual check of the dust collector (Source ID C10; Evonik ID 554) associated with the dryer, on an operating day basis.
- (c) A manual check of the dust collector associated with the dryer to confirm that it is operating properly, on a weekly basis.
- (d) Routine preventative maintenance of the dryer, in accordance with the manufacturers' specifications.
- (e) Routine preventative maintenance of the dust collector associated with the dryer, on a monthly basis.

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

The permittee shall operate and maintain a differential pressure gauge to indicate the differential pressure across the dust collector (Source ID C10; Evonik ID 554) associated with this dryer. The dust collector shall operate within the differential pressure range of 0.5 of 8.0 inches of water.

VII. ADDITIONAL REQUIREMENTS.**# 015 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) This source consists of a dryer, model no. 68, Type III, manufactured by Anhydro, Inc. The dryer is rated at 29,500 acfm exhaust gas flow, and is equipped with a natural gas-fired low-NOx burner (with propane backup), Model Type Crossfire, manufactured by Maxon Corp. The burner is rated at 40 mmBtu/hr heat input.

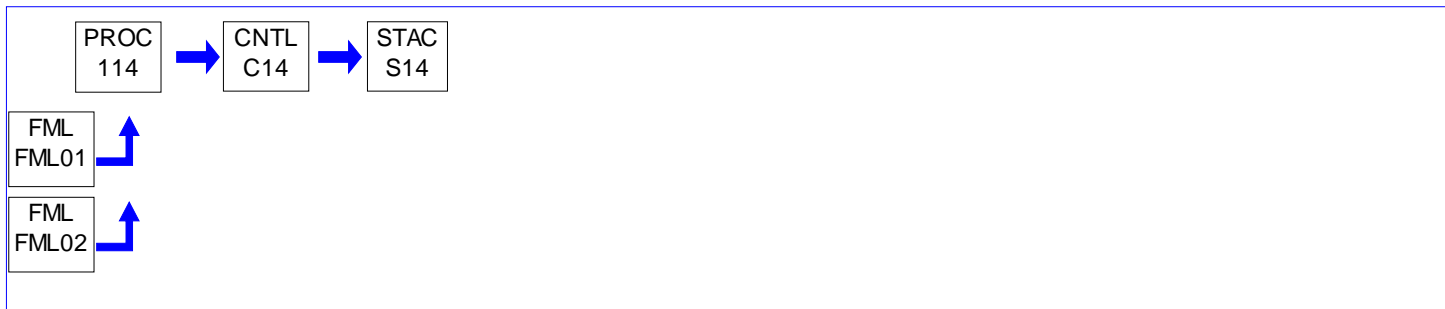
(b) PM emissions from the dryer are ducted to an associated pulse jet dust collector (Source ID C10; Evonik ID 554), model no. 800S-8-TR-C, manufactured by MikroPul, before exhausting into the outdoor atmosphere. The dust collector is fitted with 800 cylindrical fabric filter bags.

**SECTION D. Source Level Requirements**

Source ID: 114

Source Name: DRYER IV (3548)

| | | |
|-----------------------------|------------------|-------------------------|
| Source Capacity/Throughput: | 7,000.000 Lbs/HR | AMORPHOUS PRECIPITATION |
| | 24.900 MCF/HR | Natural Gas |
| | 275.000 Gal/HR | Propane |

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

(a) The permittee shall ensure that emission into the outdoor atmosphere of total PM (filterable + condensable) from the spray dryer IV occurs in such a manner that the concentration of PM in the effluent gas does not exceed 0.02 gr/dscf, 3.69 lb/hr, and 19.01 tons per year on a 12-month rolling basis.

(b) The emissions of oxides of nitrogen (NO_x) from the spray dryer IV, to the atmosphere shall be limited to a maximum of 0.90 lb/hr, and 3.94 tons per year, as a 12 month rolling sum basis.

(c) The emissions of carbon monoxide (CO) from the spray dryer IV, to the atmosphere shall be limited to a maximum of 5.45 lb/hr, and 23.87 tons per year, as a 12 month rolling sum basis.

(d) 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 20% for a period or periods aggregating more than 3 minutes in any 1 hour.
- (2) Equal to or greater than 60% at any time.

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.**

For this spray dryer, the permittee shall monitor the following operating parameters on a monthly basis:

- (a) The hours of operation.
- (b) The type of fuel consumed.
- (c) The amount of fuel consumed.

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

The permittee shall monitor the differential pressure across the dust collector (Source ID C14; Evonik ID 3554) associated

**SECTION D. Source Level Requirements**

with this spray dryer on an operating day basis.

IV. RECORDKEEPING REQUIREMENTS.**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

For this spray dryer, the permittee shall keep records of the following operating parameters on a monthly basis:

- (a) The hours of operation.
- (b) The type of fuel consumed.
- (c) The amount of fuel consumed.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall calculate and record the emissions on a 12-month rolling sum to demonstrate the compliance with Condition # 001.

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

The permittee shall keep records of the differential pressure across the dust collector (Source ID C14; Evonik ID 3554) associated with this spray dryer on an operating day basis.

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

The permittee shall keep records of all preventative maintenance inspections for this spray dryer and the associated dust collector (Source ID C14; Evonik ID 3554). These records shall contain, at a minimum, the following for each inspection:

- (a) The date of the inspection.
- (b) Any routine maintenance performed.
- (c) Any problems or defects.
- (d) Any corrective action(s) taken.

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

For the dust collector (Source ID C14; Evonik ID 3554) associated with this spray dryer, the permittee shall keep records of the following information whenever the differential pressure alarm set point is reached:

- (a) The date.
- (b) The differential pressure.
- (c) The cause(s).
- (d) The corrective action(s) taken, if necessary to abate the situation and prevent future occurrences.

V. REPORTING REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 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(b).]

For the dust collector (Source ID C14; Evonik ID 3554) associated with this spray dryer, the permittee shall ensure that a sufficient quantity of spare fabric filter bags are kept on hand for immediate replacement of any bags that have become deteriorated.

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

The permittee shall perform and record the following inspections in accordance with Condition # 007 Section D (under Source ID 114), of this permit:

- (a) A visual check of this spray dryer, on an operating daily basis.
- (b) A visual check of the dust collector (Source ID C14; Evonik ID 3554) associated with the spray dryer, on an operating day basis.
- (c) A manual check of the dust collector associated with the spray dryer to confirm that it is operating properly, on a weekly basis.
- (d) Routine preventative maintenance of the spray dryer, in accordance with the manufacturer's specifications.
- (e) Routine preventative maintenance of the dust collector associated with the spray dryer, on a monthly basis.

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

The permittee shall operate and maintain a differential pressure gauge to indicate the differential pressure across the dust collector (Source ID C14; Evonik ID 3554) associated with this spray dryer. The dust collector shall be operated within the normal differential pressure range of 0.5 to 6.0 inches of water.

VII. ADDITIONAL REQUIREMENTS.**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) This source consists of a spray dryer, model no. SFD 68, manufactured by Anhydro or equivalent. The spray dryer is rated at 31,630 acfm exhaust gas flow, and is equipped with a natural gas-fired burner (with propane backup) rated at 24.9 mmBtu/hr heat input.
- (b) PM emissions from the spray dryer are ducted to an associated pulse jet dust collector (Source ID C14; Evonik ID 3554), model no. 800L-10-TR-L, manufactured by MikroPul or equivalent, before exhausting into the outdoor atmosphere. The dust collector is fitted with 800 cylindrical fabric filter bags.

**SECTION D. Source Level Requirements**

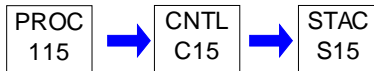
Source ID: 115

Source Name: MILLING EQUIPMENT (3630)

Source Capacity/Throughput: 4,400.000 Lbs/HR

AMORPHOUS SILICON DIOXIDE

Conditions for this source occur in the following groups: MILLING EQUIPMENT

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [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(b).]

The permittee shall ensure that emission into the outdoor atmosphere of total PM (filterable + condensable) at the outlet of dust collector occurs in such a manner that neither of the following occur:

- (1) The concentration of the emission is greater than 0.02 gr/dscf.
- (2) The rate of the emission is greater than 0.57 lbs/hr and 2.48 tons/yr.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.**# 002 [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(b).]

The permittee shall ensure that the dust collector associated with the source is operated and maintained in accordance with the following restrictions:

- (a) The dust collector shall maintain a minimum PM removal efficiency of 99%.



SECTION D. Source Level Requirements

(b) The exhaust gas flow from the dust collector shall not exceed 5,285 acfm.

VII. ADDITIONAL REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

PM emissions from the milling equipment are ducted to associated dust collectors (Source ID 115), as listed below, before exhausting into the outdoor atmosphere. Each dust collector is fitted with cylindrical fabric filter bags and equipped with automatic-reporting differential pressure gauges.

| Associated Dust collector No. | Manufacturer | Model No. | Type | No. of bags | Gauge type |
|----------------------------------|--------------|---------------------------|-----------|-------------|------------|
| 3635 | Mikropul | 180R-100-0.05 Barg TR 'C" | Pulse jet | 180 | AR |

AR = Automatically-reporting differential pressure gauge

**SECTION D. Source Level Requirements**

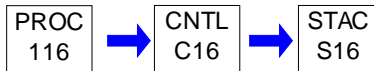
Source ID: 116

Source Name: MILLING EQUIPMENT (3650)

Source Capacity/Throughput: 440.000 Lbs/HR

AMORPHOUS SILICON DIOXIDE

Conditions for this source occur in the following groups: MILLING EQUIPMENT

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

001 [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(b).]

The permittee shall ensure that emission into the outdoor atmosphere of total PM (filterable + condensable) at the outlet of dust collector occurs in such a manner that neither of the following occur:

- (1) The concentration of the emission is greater than 0.02 gr/dscf.
- (2) The rate of the emission is greater than 0.17 lbs/hr and 0.76 tons/yr.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

002 [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(b).]

The permittee shall ensure that the dust collector associated with the source is operated and maintained in accordance with the following restrictions:

**SECTION D. Source Level Requirements**

- (a) The dust collector shall maintain a minimum PM removal efficiency of 99%.
- (b) The exhaust gas flow from the dust collector shall not exceed 4,527 acfm.

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

PM emissions from the milling equipment are ducted to associated dust collectors (Source ID 116), as listed below, before exhausting into the outdoor atmosphere. Each dust collector is fitted with cylindrical fabric filter bags and equipped with automatic-reporting differential pressure gauges.

| Associated Dust collector No. | Manufacturer | Model No. | Type | No. of bags | Gauge type |
|----------------------------------|--------------|---------------------------|-----------|-------------|------------|
| 3655 | Mikropul | 180R-100-0.05 Barg TR 'C" | Pulse jet | 180 | AR |

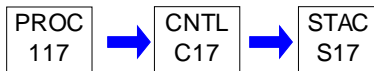
AR = Automatically-reporting differential pressure gauge

**SECTION D. Source Level Requirements**

Source ID: 117

Source Name: STORAGE SILO (3612)

Source Capacity/Throughput: 4,400.000 Lbs/HR SILICON DIOXIDE

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [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(b).]

The permittee shall ensure that emission into the outdoor atmosphere of total PM (filterable + condensable) at the outlet of dust collector occurs in such a manner that neither of the following occur:

- (1) The concentration of the emission is greater than 0.02 gr/dscf.
- (2) The rate of the emission is greater than 0.68 lbs/hr and 2.98 tons/yr.

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 differential pressure across the dust collector associated with this silo on a daily basis.

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

The permittee shall keep records of all preventative maintenance inspections for the dust collector associated with this silo. These records shall contain, at a minimum, the following for each inspection:

- (a) The date of the inspection.
- (b) Any routine maintenance performed.
- (c) Any problems or defects.
- (d) Any corrective action(s) taken.

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

The permittee shall keep records of the differential pressure across the dust collector associated with this silo on a daily basis.

005 [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(b).]

**SECTION D. Source Level Requirements**

The permittee shall keep a copy of the manufacturer's specifications for the dust collector.

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

For the dust collector, the permittee shall keep records of the following information whenever a differential pressure alarm set point is reached:

- (a) The dust collector.
- (b) The date.
- (c) The differential pressure.
- (d) The cause(s).
- (e) The corrective action(s) taken, if necessary to abate the situation and prevent future occurrences.

V. REPORTING REQUIREMENTS.**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall submit one paper copy plus one electronic copy of all source test submissions (notifications, protocols, reports, supplemental information, etc.) to both the AQ Program Manager for the Southeast Regional Office and the PSIMS Administrator in Central Office (mail and email addresses are provided below). Any questions or concerns about source testing submissions can be sent to RA-EPstacktesting@pa.gov and the PSIMS Administrator will address them.

(b) The following pertinent information shall be listed on the title page.

1. Test Date(s)
 - a. For protocols, provide the proposed date on which testing will commence or "TBD"
 - b. For reports, provide the first and last day of testing
2. Facility Identification Number (Facility - ID): For test programs that were conducted under a multi-site protocol, also include the PF Id under which the protocol was stored in PSIMS, as indicated in the protocol response letter.
3. Source ID(s) for the applicable source(s) and air pollution control device(s): The term Source ID is used in the permit but "Other Id" is used in DEP electronic systems. They are the same number and must also be listed for control equipment
4. Testing Requirements (all that apply)
 - a. Plan approval number(s)
 - b. Operating permit number
 - c. Applicable federal subpart(s) (i.e. 40 CFR 60, Subpart JJJJ)
 - d. Special purpose(s) (Consent Order, RFD, RACT II, Tier II, etc.)

(c) Mail all paper submissions to both the PSIMS Administrator and the Air Quality Program Manager for the Southeast Regional Office. Mailing addresses are provided below.

Central Office
 Pennsylvania Department of Environmental Protection
 Attn: PSIMS Administrator
 P.O. Box 8468
 Harrisburg, PA 17105-8468

Southeast Region
 Pennsylvania Department of Environmental Protection
 Attn: Air Quality Program Manager
 2 East Main Street
 Norristown, PA 19401

**SECTION D. Source Level Requirements**

(d) Eliminate shading, color ink for data emphasis, small font size, and color saturation as the scanning to create an electronic file is done in black and white. Shading and color emphasis do not scan well and make the electronic copies difficult to read.

(e) Email all electronic submissions to both the PSIMS Administrator in Central Office and the Air Quality Program Manager for the Southeast Regional Office. Email addresses are provided below.

Central Office RA-EPstacktesting@pa.gov

Southeast Region RA-EPSEstacktesting@pa.gov

(f) The Department limits emails to 15 MB and PSIMS has a file size limitation of 100 MB for electronic files. Submit just one electronic file (convert any Microsoft Word or Excel files to an Adobe PDF format and combine them with the report or protocol), unless the submission contains CONFIDENTIAL information.

(g) If confidential information must be submitted, submit both a public copy, which has been redacted, and a confidential copy. The cover page of each submittal should state whether it is a "Public Copy" or "Confidential Copy" and each page of the latter must be marked "CONFIDENTIAL".

VI. WORK PRACTICE REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For the dust collector associated with this silo, the permittee shall ensure that a sufficient quantity of spare fabric filter bags are kept on hand for immediate replacement of any bags that have become deteriorated.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall perform and record the following inspections:

- (a) A visual check of each piece of this silo, on an operating daily basis.
- (b) A visual check of each of the dust collector associated with the silo, on an operating day basis.
- (c) A manual check of the dust collector associated with the silo to confirm that they are operating properly, on a weekly basis.
- (d) Routine preventative maintenance of silo, in accordance with the manufacturer's specifications.
- (e) Routine preventative maintenance of each of the dust collector associated with the silo, on a monthly basis.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate and maintain a pressure gauge to indicate the differential pressure across the dust collector associated with this silo. The dust collector shall be operated within the normal differential pressure range of 0.1 to 10 inches of water.

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(b).]

The permittee shall ensure that the dust collector associated with the silo is operated and maintained in accordance with the following restrictions:

- (a) The dust collector shall maintain a minimum PM removal efficiency of 99%.
- (b) The exhaust gas flow from the dust collector shall not exceed 1,256 acfm.

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

PM emissions from the milling equipment are ducted to associated dust collectors (Source ID 117), as listed below, before exhausting into the outdoor atmosphere. Each dust collector is fitted with cylindrical fabric filter bags and equipped with automatic-reporting differential pressure gauges.

| Associated Dust collector No. | Manufacturer | Model No. | Type | No. of bags | Gauge type |
|----------------------------------|--------------|-----------|------|-------------|------------|
|----------------------------------|--------------|-----------|------|-------------|------------|

| | | | | | |
|------|----------|-------------------------|-----------|----|----|
| 3613 | Mikropul | 60-100-0.05 Barg TR 'B' | Pulse jet | 60 | AR |
|------|----------|-------------------------|-----------|----|----|

AR = Automatically-reporting differential pressure gauge

**SECTION E. Source Group Restrictions.**

Group Name: BOILER GROUP

Group Description: Boiler 1 and 2 PM Condition

Sources included in this group

| ID | Name |
|-----|----------------|
| 031 | BOILER 2 (715) |

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

001 [25 Pa. Code §123.11]

Combustion units

The permittee shall ensure that emission into the outdoor atmosphere of PM from this boiler occurs in such a manner that the rate of the emission does not exceed 0.4 lbs/mmBtu heat input.

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.

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

IV. RECORDKEEPING REQUIREMENTS.

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

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.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.**

Group Name: MILLING EQUIPMENT

Group Description: 2 mills with baghouse on each

Sources included in this group

| ID | Name |
|-----|--------------------------|
| 115 | MILLING EQUIPMENT (3630) |
| 116 | MILLING EQUIPMENT (3650) |

I. RESTRICTIONS.

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

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.**# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the differential pressure across the dust collector associated with this milling equipment on a daily basis.

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

The permittee shall keep records of all preventative maintenance inspections for the dust collector associated with this milling equipment. These records shall contain, at a minimum, the following for each inspection:

- (a) The date of the inspection.
- (b) Any routine maintenance performed.
- (c) Any problems or defects.
- (d) Any corrective action(s) taken.

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

The permittee shall keep records of the differential pressure across the dust collector associated with this milling equipment on a daily basis.

004 [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(b).]

The permittee shall keep a copy of the manufacturer's specifications for the dust collector.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

For the dust collector, the permittee shall keep records of the following information whenever a differential pressure alarm set point is reached:

- (a) The dust collector.
- (b) The date.
- (c) The differential pressure.

**SECTION E. Source Group Restrictions.**

(d) The cause(s).

(e) The corrective action(s) taken, if necessary to abate the situation and prevent future occurrences.

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

For the dust collector associated with this milling equipment, the permittee shall ensure that a sufficient quantity of spare fabric filter bags are kept on hand for immediate replacement of any bags that have become deteriorated.

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

The permittee shall perform and record the following inspections:

- (a) A visual check of each piece of this milling equipment, on an operating daily basis.
- (b) A visual check of each of the dust collector associated with the milling equipment, on an operating day basis.
- (c) A manual check of the dust collector associated with the milling equipment to confirm that they are operating properly, on a weekly basis.
- (d) Routine preventative maintenance of each piece of the milling equipment, in accordance with the manufacturer's specifications.
- (e) Routine preventative maintenance of each of the dust collector associated with the milling equipment, on a monthly basis.

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

The permittee shall operate and maintain a pressure gauge to indicate the differential pressure across the dust collector associated with this milling equipment. The dust collector shall be operated within the normal differential pressure range of 0.1 to 10 inches of water.

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.**

Group Name: MILLING EQUIPMENT

Group Description: 2 mills with baghouse on each

[Sources included in this group](#)

| ID | Name |
|----|------|
|----|------|

No Sources exist for this Group.

I. RESTRICTIONS.

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

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.

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

IV. RECORDKEEPING REQUIREMENTS.

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

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.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.**

Group Name: SPRAY DRYER GROUP

Group Description: Spray Dryer Conditions

Sources included in this group

| ID | Name |
|-----|------------------------------|
| 101 | LARGE SPRAY DRYER (#1) (510) |
| 109 | SMALL SPRAY DRYER (#2) (806) |

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall ensure that emission into the outdoor atmosphere of PM from this spray dryer occurs in such a manner that the concentration of PM in the effluent gas does not exceed 0.04 gr/dscf.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that natural gas and propane are the only fuels consumed by this spray dryer.

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.

For this spray dryer, the permittee shall monitor the following operating parameters on a monthly basis:

- (a) The hours of operation.
- (b) The type of fuel consumed.
- (c) The amount of fuel consumed.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For this spray dryer, the permittee shall keep records of the following operating parameters on a monthly basis:

- (a) The hours of operation.
- (b) The type of fuel consumed.
- (c) The amount of fuel consumed.

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.

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

**SECTION E. Source Group Restrictions.****VII. ADDITIONAL REQUIREMENTS.**

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



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this permit.

**SECTION G. Emission Restriction Summary.**

| Source Id | Source Descriptor | | |
|-----------------------|------------------------------|---|-----|
| 003 | BOILER NO.3 (708) | | |
| Emission Limit | | Pollutant | |
| 0.400 | Lbs/MMBTU | Heat Input | TSP |
| 031 | BOILER 2 (715) | | |
| Emission Limit | | Pollutant | |
| 0.035 | Lbs/MMBTU | Heat Input; When Consuming Natural Gas | NOX |
| 30.000 | PPMV | Dry Basis, Corrected to 3% O2; When Consuming Natural Gas | NOX |
| 0.400 | Lbs/MMBTU | Heat Input | TSP |
| 101 | LARGE SPRAY DRYER (#1) (510) | | |
| Emission Limit | | Pollutant | |
| 0.040 | gr/DRY FT3 | | TSP |
| 103A | STORAGE SILOS | | |
| Emission Limit | | Pollutant | |
| 0.020 | gr/DRY FT3 | Total PM (Filterable + Condensable) | TSP |
| 103B | STORAGE SILO | | |
| Emission Limit | | Pollutant | |
| 0.020 | gr/DRY FT3 | Total PM (filtrable+condensable) | TSP |
| 0.350 | Tons/Yr | At the outlet of Dust collector, Limit applies to PM-Tota | TSP |
| 107A | GRANULATING EQUIPMENT | | |
| Emission Limit | | Pollutant | |
| 0.020 | gr/DRY FT3 | At the Outlet of Dust Collector No. 6132 | TSP |
| 0.040 | gr/DRY FT3 | From Each Piece of Equipment, Except As Specified in Condition # 002 | TSP |
| 0.430 | Lbs/Hr | At the Outlet of Dust Collector No. 6132 | TSP |
| 1.880 | Tons/Yr | At the Outlet of Dust Collector No. 6132 | TSP |
| 107B | GRANULATING EQUIPMENT | | |
| Emission Limit | | Pollutant | |
| 0.020 | gr/DRY FT3 | Total PM (filterable + condensable) | TSP |
| 0.020 | gr/DRY FT3 | Total PM (filtrable+condensable) | TSP |
| 0.380 | Lbs/Hr | f Dust Collector, Limit applies to PM-Tota | TSP |
| 1.660 | Tons/Yr | At the Outlet of Dust Collector, Limit applies to PM-Total, PM10, & PM2.5 | TSP |
| 108A | MILLING EQUIPMENT | | |
| Emission Limit | | Pollutant | |
| 0.040 | gr/DRY FT3 | From Each Piece of Equipment | TSP |

**SECTION G. Emission Restriction Summary.**

| Source Id | Source Descriptor | | |
|-----------------------|------------------------------|---|------|
| 109 | SMALL SPRAY DRYER (#2) (806) | | |
| Emission Limit | | | |
| 0.040 | gr/DRY FT3 | | TSP |
| 112A | DRYER 3 (0548) | | |
| Emission Limit | | | |
| 2.580 | Lbs/Hr | | NOX |
| 11.280 | Tons/Yr | Calculated on 12-month rolling sum | NOX |
| 0.040 | gr/DRY FT3 | | TSP |
| 114 | DRYER IV (3548) | | |
| Emission Limit | | | |
| 5.450 | Lbs/Hr | | CO |
| 23.870 | Tons/Yr | | CO |
| 0.900 | Lbs/Hr | | NOX |
| 3.940 | Tons/Yr | | NOX |
| 0.020 | gr/DRY FT3 | Total PM (filtrable+condensable) | TSP |
| 3.690 | Lbs/Hr | At the outlet of Dust collector, Limit applies to PM-Tota | TSP |
| 19.010 | Tons/Yr | At the outlet of Dust collector, Limit applies to PM-Total | TSP |
| 115 | MILLING EQUIPMENT (3630) | | |
| Emission Limit | | | |
| 0.570 | Lbs/Hr | Limit applies to PM10 & PM2.5 | PM10 |
| 0.020 | gr/DRY FT3 | Limit applies to PM-Total | TSP |
| 0.020 | gr/DRY FT3 | Total PM (filtrable+condensable) | TSP |
| 0.570 | Lbs/Hr | At the Outlet of Dust Collector, Limit applies to PM-Total | TSP |
| 2.480 | Tons/Yr | At the Outlet of Dust Collector, Limit applies to PM-Total, PM10, & PM2.5 | TSP |
| 116 | MILLING EQUIPMENT (3650) | | |
| Emission Limit | | | |
| 0.170 | Lbs/Hr | Limit applies to PM10 & PM2.5 | PM10 |
| 0.020 | gr/DRY FT3 | Limit applies to PM-Total | TSP |
| 0.020 | gr/DRY FT3 | Total PM (filtrable+condensable) | TSP |
| 0.170 | Lbs/Hr | At the Outlet of Dust Collector, Limit applies to PM-Total | TSP |
| 0.760 | Tons/Yr | At the Outlet of Dust Collector, Limit applies to PM-Total, PM10, & PM2.5 | TSP |
| 117 | STORAGE SILO (3612) | | |
| Emission Limit | | | |
| 0.680 | Lbs/Hr | Limit applies to PM10 & PM2.5 | PM10 |
| 0.020 | gr/DRY FT3 | Limit applies to PM-Total | TSP |
| 0.020 | gr/DRY FT3 | Total PM (filtrable+condensable) | TSP |
| 0.680 | Lbs/Hr | At the Outlet of Dust Collector, Limit applies | TSP |



SECTION G. Emission Restriction Summary.

| Source Id | Source Description |
|---------------|---|
| | to PM-Total |
| 2.980 Tons/Yr | At the Outlet of Dust Collector, Limit applies to PM-Total, PM10, & PM2.5 TSP |

Site Emission Restriction Summary

| Emission Limit | | Pollutant |
|----------------|--|-----------|
| 99.900 Tons/Yr | 12-Month Rolling Sum, Calculated Monthly | TSP |
| 24.900 Tons/Yr | 12-Month Rolling Sum, Calculated Monthly | NOX |

**SECTION H. Miscellaneous.**

(a) The following previously-issued documents serve as the basis for certain terms and conditions set forth in this permit:

- (1) Operating Permit No. 23-313-024B.
- (2) Operating Permit No. 23-302-132.
- (3) Operating Permit No. OP-23-0047.
- (4) RFD No. 23-A01-509.
- (5) RFD No. 23-A01-521.
- (6) RFD No. 23-A01-723.
- (7) RFD No. 23-A01-770.
- (8) Plan Approval No. 23-0047B.
- (9) Plan Approval No. 23-0047C.
- (10) Plan Approval No. 23-0047D.
- (11) Plan Approval No. 23-0047E.

(b) 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 laws and regulations, including those indicated in Section C (Site Level Requirements), of this permit:

(1) Four portable space heaters, as follows:

| Fuel Type | Rated Heat Input | Quantity |
|----------------|------------------|----------|
| Natural Gas | 150 mBtu/hr | 1 |
| No. 2 Fuel Oil | 150 mBtu/hr | 2 |
| No. 2 Fuel Oil | 300 mBtu/hr | 1 |
| | ----- | ----- |
| | 750 mBtu/hr | 4 |

- (2) Janitorial products.
- (3) Normal repair, maintenance, and upkeep activities.
- (4) Two laboratory hoods (used for product quality control/assurance testing).
- (5) Routine office equipment.
- (6) Cooling tower treatment.
- (7) Boiler water treatment.
- (8) A manufacturing silo with associated dust collector (no. 351), model no. 12-8-100, manufactured by MikroPul.
- (9) Floor vacuum cleanup with an associated dust collector (no. 681), model no. 31-8-55, manufactured by MikroPul.
- (10) A portable vacuum with associated dust collector, model no. 57485, manufactured by Lamson.
- (11) A packer with associated recycle dust collector (no. 627), model no. 1TR-2-60, manufactured by MikroPul.
- (12) A packer (associated with silo no. 635 of Source ID 107A) with associated recycle dust collector (no. 652), model no. 55-8-

**SECTION H. Miscellaneous.**

55, manufactured by MikroPul.

(c) This permit is a renewal of State Only Operating Permit No. 23-00047, initially issued on October 28, 2002 (APS ID 345739, Auth ID 354545), and amended on July 31, 2007 (APS ID 345739, Auth ID 687105). The following is a listing of the changes reflected in this permit (APS ID 345739, Auth ID 683337):

- (1) The owner and plant names have been changed to "Evonik Degussa Corporation."
- (2) An extension has been added to the permit contact person telephone number on the cover page of this permit.
- (3) The source capacity (i.e., rated heat input) listing for Source ID 031 has been corrected in Sections A (Site Inventory List) and D (Source Level Requirements), of this permit.
- (4) The natural gas and propane throughput listings for Source IDs 031, 032, 101, 109, and 112A have been corrected in Sections A and D, of this permit, where applicable.
- (5) As reflected in Sections A and D, of this permit, the following source groupings, control devices, and emission points, along with corresponding source capacity and throughput listings and permit maps, have been reorganized:

| Old Source ID(s) | Old Source Name(s) | New Source ID | New Source Name |
|------------------|---|---------------|---|
| 103 | Storage Silos | 103A | Storage Silos |
| 107 | BV Dust Collector Sources | 107A | Granulating Equipment |
| 108 | Milling (Impact & Roller Mill) | 108A | Milling Equipment |
| C03 - C05 | Storage Silo Baghouse | C03A | Storage Silo Dust Collectors |
| C06 | Milling Baghouse | C06A | Milling Equipment Dust Collectors |
| C08; C29 | BV Dust Coll Baghouse; Baghouse 6132 | C08A | Granulating Equipment Dust Collectors |
| S03 - S05 | Storage Silo Stack | S03A | Storage Silo Dust Collector Stacks |
| S07 | Milling Stack | S07A | Milling Equipment Dust Collector Stacks |
| S09; S29 | BV Dust Coll Stack; Baghouse 6132 Stack | S09A | Granulating Equipment Dust Collector |

Stacks

(6) The following source and emission point, along with corresponding throughput listing, permit map, and conditions, have been added to Sections A and D, of this permit, where applicable:

| Source ID | Source Name |
|-----------|---------------------------------------|
| 110 | Cold Parts Cleaner |
| Z02 | Cold Parts Cleaner Fugitive Emissions |

(7) The following source grouping and emission point, along with corresponding throughput listing, permit map, and conditions, have been removed from Sections A and D, of this permit, where applicable:

| Source ID | Source Name |
|-----------|--------------------------------------|
| 111 | Fugitives |
| Z01 | Wastewater Plant and Misc(ellaneous) |

- (8) All occurrences of the term "baghouse(s)" in the original permit have been replaced with the term "dust collector(s)."
- (9) The source name for Source ID 112A has been reduced to "dryer #3."
- (10) The amorphous precipitated silica throughput listings for Source ID 112A has been corrected in Sections A and D, of this permit.
- (11) The source (control device) name for Source ID C10 has been reduced to "dryer #3 dust collector."
- (12) The source (emission point) name for Source ID S01 has been corrected to "large & small spray dryer dust collectors stack."

**SECTION H. Miscellaneous.**

- (13) The source (emission point) name for Source ID S12 has been changed to "boiler #1 stack."
- (14) The source (emission point) name for Source ID S13 has been reduced to "dryer #3 dust collector stack."
- (15) An exception for emission into the outdoor atmosphere of fugitive air contaminants from certain types of open burning operations has been added as Condition # 002(f), Section C, of this permit.
- (16) The term "air contaminant" has been added after the terms "fugitive" and "visible" in Conditions # 002(g), 006, 011, and 012(a) - (b), Section C, of this permit, where applicable.
- (17) The following for Condition # 007, Section C, of the previously-amended permit (Condition # 016, Section C, of this permit):
- (i) The language has been revised to specify that the source(s) where any deviations are observed is required to be recorded and that all monitoring required in Condition # 012(a)(1) - (3), Section C, of this permit, is required to be recorded, not only when deviations are observed.
 - (ii) Requirements to maintain records of a description(s) and the affected source(s) and/or associated air pollution control device(s) of any deviation(s) have been added as Sub-conditions (a)(1) - (2), respectively.
 - (iii) A requirement that the monitoring shall be recorded and maintained in a Department-approved format and time frame has been added as Sub-condition (b).
- (18) A statement that the Department may require testing if it has cause to believe that air contaminant emissions from any source(s) listed in Sections A or G, 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, has been added as Condition # 010, Section C, of this permit.
- (19) The following for Condition # 011, Section C, of the previously-amended permit (Condition # 012, Section C, of this permit):
- (i) The language of Sub-condition (b) has been revised to specify that any fugitive particulate emissions that originate on-site are required to comply with Sub-condition (b)(1) - (3), not only those that originate on-site and cross the property line.
 - (ii) The references to "compliance certifications" and "semi-annual monitoring reports" in Sub-condition (e) have been removed.
- (20) The phrase "all newly-proposed" has replaced the phrase "the proposed" in Condition # 012, Section C, of the previously-amended permit (Condition # 017, Section C, of this permit).
- (21) The requirement to maintain records of the fuel and/or material throughput for each source on a monthly basis has been removed from Condition # 013, Section C, of the previously-amended permit (same condition in this permit).
- (22) A requirement to maintain and make available, upon request by the Department, all records, reports, and analysis results used to comply with this permit has been added as Condition # 014, Section C, of this permit.
- (23) A requirement to maintain records of all of the facility's emission increases has been added as Condition # 016, Section C, of this permit.
- (24) Requirements to describe, in a written report, the affected source(s) and/or associated air pollution control device(s) and their location(s), as well as the cause(s) of, any malfunction(s) at the facility, have been added as Condition # 018(c)(2) and (4), Section C, of this permit, respectively.
- (25) A requirement to develop and implement an accidental release program and RMP, as applicable, has been added as Condition # 019, Section C, of this permit.
- (26) A requirement to submit a source report, if previously advised by the Department, and statement that an extension of time for filing the source report may be requested, have been added as Condition # 020(a) - (b), Section C, of this permit, respectively.
- (27) A requirement that source reports be submitted in a format specified by the Department and contain sufficient information to enable the Department to complete its emission inventory has been added as Condition # 021, Section C, of this permit.

**SECTION H. Miscellaneous.**

(28) Conditions # 016 and 019(b), Section C, of the previously-amended permit, have been removed.

(29) A requirement to calculate the total NO_x and PM emissions from the facility on a monthly and 12-month rolling basis has been added as Condition # 023(a) - (b), Section C, of this permit, respectively.

(30) Condition # 002, Section D (under Source IDs 031 - 032), of the previously-amended permit, has been removed (the sulfur oxides [SO_x] emission restriction is not expected to be attained using natural gas or propane).

(31) Condition # 005(a), Section D (under Source ID 031), of the original permit, has been removed (the value is the rated heat input, which is not expected to be exceeded).

(32) Requirements to monitor and maintain records of the hours of operation for the boilers on a monthly basis have been added as Conditions # 005 and 007, Section D (under Source ID 031), of this permit, respectively, and Conditions # 003(a) and 004(a), Section D (under Source ID 032), of this permit, respectively.

(33) Source descriptions have been added to Section D, of this permit, as follows:

(i) Condition # 010 (under Source ID 031), of this permit.

(ii) Condition # 005 (under Source ID 032), of this permit.

(iii) Condition # 012 (under Source IDs 101, 107A, 109, and 112A), of this permit.

(iv) Condition # 009 (under Source IDs 103A and 108A), of this permit.

(34) A fuel restriction for natural gas and propane has been added as Condition # 002 (under Source IDs 101, 109, and 112A), Section D, of this permit.

(35) Requirements to monitor and maintain records of the hours of operation for and type and amount of fuel consumed by the dryers on a monthly basis have been added as Conditions # 003(a) - (c) and 005(a) - (c), Section D (under Source IDs 101 and 109), of this permit, respectively, and Conditions # 004(a) - (c) and 008(a) - (c), Section D (under Source ID 112A), of this permit, respectively.

(36) Requirements to maintain records of the dust collector and date whenever the differential pressure alarm set point is reached for the various dust collectors has been added to Section D, of this permit, where applicable, as follows:

(i) Condition # 008(a), Section D (under Source IDs 101 and 109), of this permit (date only, as only one dust collector is associated with each dryer).

(ii) Condition # 005(a) - (b), Section D (under Source IDs 103A and 108A), of this permit, respectively.

(iii) Condition # 006(a) - (b), Section D (under Source ID 107A), of this permit, respectively.

(iv) Condition # 007(a), Section D (under Source ID 112A), of this permit (date only, as only one dust collector is associated with the dryer).

(37) A requirement to maintain records of the differential pressure across the dust collectors associated with the dryers on an operating day basis has been added to Section D, of this permit, as follows:

(i) Condition # 006, Section D (under Source IDs 101 and 109), of this permit.

(ii) Condition # 005, Section D (under Source ID 112A), of this permit.

(38) A requirement to maintain records of all preventative maintenance inspections for the dryers and various dust collectors at the facility has been added to Section D, of this permit, where applicable, as follows:

(i) Condition # 007, Section D (under Source IDs 101 and 109), of this permit.

(ii) Condition # 004, Section D (under Source IDs 103A and 108A), of this permit.

**SECTION H. Miscellaneous.**

(iii) Condition # 005, Section D (under Source ID 107A), of this permit.

(iv) Condition # 006, Section D (under Source ID 112A), of this permit.

(39) A schedule for performing inspections (i.e., checks and preventative maintenance) for the dryers, equipment, and various dust collectors at the facility has been added to Section D, of this permit, where applicable, as follows:

(i) Condition # 010, Section D (under Source IDs 101, 109, and 112A), of this permit.

(ii) Condition # 007, Section D (under Source IDs 103A and 108A), of this permit.

(iii) Condition # 009, Section D (under Source ID 107A), of this permit.

(40) Condition # 004, Section D (under Source IDs 101, 103, 107, 108, and 109), of the previously-amended permit, and Condition # 005, Section D (under Source ID 112), of the previously-amended permit, have been incorporated into (c)(38), above.

(41) Requirements to operate and maintain a differential pressure gauge and operate within a differential pressure range for the various dust collectors at the facility have been added to Section D, of this permit, where applicable, as follows:

(i) Condition # 011, Section D (under Source IDs 101, 109, and 112A), of this permit.

(ii) Condition # 008(a) - (d), Section D (under Source IDs 103A and 108A), of this permit.

(iii) Condition # 010(a) - (d), Section D (under Source ID 107A), of this permit.

(42) Except as specified in (c)(36), above, a requirement to maintain records of the differential pressure across each of the dust collectors at the facility on either a daily or weekly basis, based on whether or not the gauge automatically reports, has been added to Section D, of this permit, as follows:

(i) Condition # 003(a) - (b), Section D (under Source IDs 103A and 108A), of this permit.

(ii) Condition # 004(a) - (b), Section D (under Source ID 107A), of this permit.

(43) Condition # 006(f), Section D (under Source ID 103A), of the previously-amended permit, has been removed (already covered by Condition # 025, Section C, of this permit).

(44) The SO_x emission restrictions for Source IDs 031 and 032 in Section F (Emission Restriction Summary), of the previously-amended permit, have been removed.

(45) PM emission restrictions have been added for Source ID 107A (at the outlet of dust collector no. 6132) to Section F, of this permit.

(d) State Only Operating Permit: APS No. 345739; AUTH No. 943887

(e) May, 2014. APS : 345739, AUTH : 1023049. Minor Modification of Sources ID # 103 A, & # 108A.

(f) November 2016. APS :345739, AUTH : 1154607. Administrative Amendment to incorporate PA # 23-0047F.

(g) July 2018: APS: 345739 AUTH: 1192015

-This SMOP has been renewed and incorporated PA 23-0047G and PA 23-0047H into the permit.

- Evonik installed a Steam Generator (Boiler/Super Heater) 3651 approved through RFD 6062 on December 12, 2016. The Steam Generator is manufactured by Vapor Power, Model No. HS2-H4748-SHK with a rated heat input of 9.735 MMBTU/HR burning natural gas and propane as back-up. The steam generator was exempt from needing a plan approval under 25 pa. Code Section 127.14(a)(3). The steam generator is not listed in Section D of the permit as it is less than 10 MMBTU/HR and the PTE are minimal at less than 4 tpy. Evonik will calculate and record the NO_x and PM emissions monthly and on a 12-month rolling sum in order to comply with the overall facility limits. Source ID 032A was created in DEP's database for emission reporting.

**SECTION H. Miscellaneous.**

- Under Plan Approval 23-0047G, Evonik conducted a stack test for total PM emissions (filterable + condensable) on Silo 1614 venting to baghouse 1615 that was replaced (Source ID 103A and C03A). The retest was conducted in August 2016. The test results were sent to the Department in October of 2016, the preliminary results showed baghouse 1615 passing the PM emission, the limit was 0.02 gr/dscf and the test results were 0.004 gr/dscf. The Department is still reviewing the test results and as of June 2018 has not sent out a final determination letter accepting the results. If the Source Testing Group for the DEP finds the stack test results unacceptable, then Evonik will have to retest.

AUTH: 1307220

This operating permit has been amended to incorporate the conditions of Plan Approval 23-0047I. The Sources that were incorporated are the following:

Source ID 115 Milling Equipment (3630) with control device C15, milling equipment 115 dust collector

Source ID 116 Milling Equipment (3650) with control device C16, milling equipment 116 dust collector

Source ID 117 Storage Silo (3612) with control device C17, storage silo 117 dust collector



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