



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

TITLE V/STATE OPERATING PERMIT

Issue Date: January 2, 2024

Effective Date: January 2, 2024

Expiration Date: January 1, 2029

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 applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

TITLE V Permit No: 47-00014

Federal Tax Id - Plant Code: 36-1898410-2

Owner Information

Name: US GYPSUM CO
Mailing Address: 86 PPL RD
DANVILLE, PA 17821-7963

Plant Information

Plant: US GYPSUM CO/WASHINGTONVILLE PLT
Location: 47 Montour County 47904 Derry Township
SIC Code: 3275 Manufacturing - Gypsum Products

Responsible Official

Name: PETER WARDENSKI
Title: PLANT MGR
Phone: (570) 380 - 2601 Email: pwardenski@usg.com

Permit Contact Person

Name: AMBER NADOLNY
Title: MILL/RELIABILITY MGR
Phone: (570) 380 - 2674 Email: anadolny@usg.com

[Signature] _____

MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION



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**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
030	COMBUSTION UNITS		
P101	DRYER MILL 1 & HAMMER MILL 1	35.000	MMBTU/HR
P102	DRYER MILL 2 & HAMMER MILL 2	35.000	MMBTU/HR
P103	CALCINING KETTLE 1	30.000	MMBTU/HR
P104	CALCINING KETTLE 2	30.000	MMBTU/HR
P105	DESTAMER 1		
P106	DESTAMER 2		
P107	KETTLE FEED BIN 1		
P108	KETTLE FEED BIN 2		
P109	STUCCO STORAGE BIN		
P110	HRA LANDPLASTER FEED BIN 1		
P111	HRA BALL MILL VENT FILTER FAN		
P112	ADDITIVE STORAGE BIN 1		
P113	ROTARY SCREEN & DRY ADDITIVE SOURCES		
P114	BOARD KILN DRYER	207.500	MMBTU/HR
P115	END SAW		
P116	DUNNAGE MACHINE		
P117	WASTE RECLAIM HOPPER		
P118	WASTE VACUUM RECEIVER		
P119	GYPSUM STORAGE, HANDLING AND FEED OPERATIONS		
P120	PAPER EDGE HEATER AND GLUE	6.000	MMBTU/HR
P121	DIESEL FUEL STORAGE TANK		
P122	GYPSUM RAILCAR & TRUCK UNLOADING OPERATIONS		
P123	BULK STORAGE BIN AND HOPPER		
P124	WALLBOARD INK		
P201	FIRE PUMP EMERGENCY ENGINE		
C101	DRYER MILL 1 & HAMMER MILL 1 FABRIC COLLECTOR		
C102	DRYER MILL 2 & HAMMER MILL 2 FABRIC COLLECTOR		
C103	CALCINING KETTLE 1 FABRIC COLLECTOR		
C104	CALCINING KETTLE 2 FABRIC COLLECTOR		
C105	DESTAMER 1 FABRIC COLLECTOR		
C106	DESTAMER 2 FABRIC COLLECTOR		
C107	KETTLE FEED BIN 1 FABRIC COLLECTOR		
C108	KETTLE FEED BIN 2 FABRIC COLLECTOR		
C109	STUCCO STORAGE BIN FABRIC COLLECTOR		
C110	HRA LANDPLASTER FEED BIN 1 FABRIC COLLECTOR		
C111	HRA BALL MILL VENT FILTER FAN FABRIC COLLECTOR		
C112	ADDITIVE STORAGE BIN 1 FABRIC COLLECTOR		

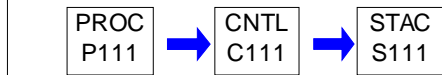
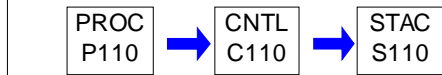
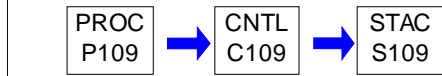
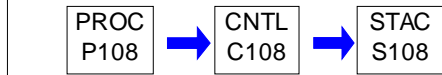
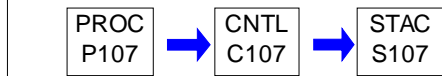
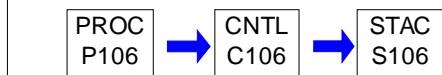
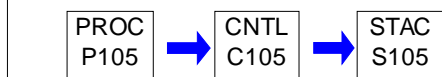
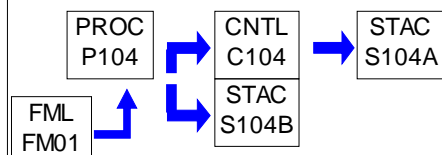
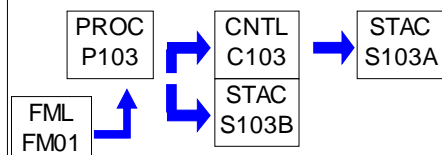
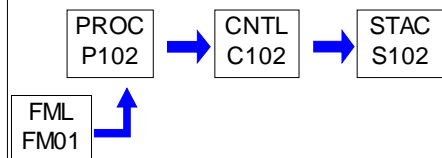
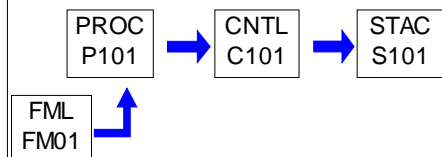
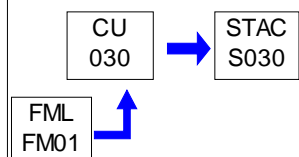
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
C113	ROTARY SCREEN & DRY ADDITIVES FABRIC COLLECTOR		
C115	END SAW FABRIC COLLECTOR		
C116	DUNNAGE MACHINE FABRIC COLLECTOR		
C117	WASTE RECLAIM HOPPER FABRIC COLLECTOR		
C118	WASTE VACUUM RECEIVER FABRIC COLLECTOR		
C123	BULK STORAGE BIN FABRIC COLLECTOR		
C123A	BULK HOPPER FILTER RECEIVER		
FM01	NATURAL GAS		
FM02	DIESEL FUEL		
S030	GAUGING WATER HEATER STACK		
S101	DRYER MILL 1 & HAMMER MILL 1 STACK		
S102	DRYER MILL 2 & HAMMER MILL 2 STACK		
S103A	CALCINING KETTLE 1 PROCESS EXHAUST		
S103B	CALCINING KETTLE 1 COMBUSTION EXHAUST		
S104A	CALCINING KETTLE 2 PROCESS EXHAUST		
S104B	CALCINING KETTLE 2 COMBUSTION EXHAUST		
S105	DESTAMER 1 STACK		
S106	DESTAMER 2 STACK		
S107	KETTLE FEED BIN 1 STACK		
S108	KETTLE FEED BIN 2 STACK		
S109	STUCCO STORAGE BIN STACK		
S110	HRA LANDPLASTER FEED BIN 1 STACK		
S111	HRA BALL MILL VENT FILTER STACK		
S112	ADDITVE STORAGE BIN 1 STACK		
S113	ROTARY SCREEN & DRY ADDITIVE SOURCES STACK		
S114	BOARD KILN DRYER STACK		
S115	END SAW STACK		
S116	DUNNAGE MACHINE STACK		
S117	WASTE RECLAIM HOPPER STACK		
S118	WASTE VACUUM RECEIVER STACK		
S120	PAPER EDGE HEATER STACK		
S123	BULK STORAGE BIN STACK		
S123A	BULK HOPPER FILTER RECEIVER STACK		
S201	FIRE PUMP EMERGENCY ENGINE STACK		
Z119	SYN. GYP. HANDLING, PROCESSING & STORAGE FUGITIVE EMISSION		
Z121	STORAGE TANK FUGITIVE EMISSIONS		
Z122A	FUGITIVE EMISSIONS		
Z124	INK USAGE EMISSIONS		

PERMIT MAPS

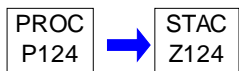
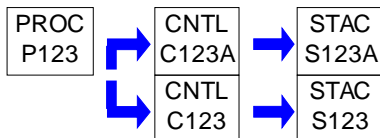
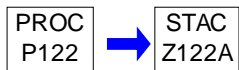
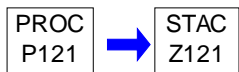
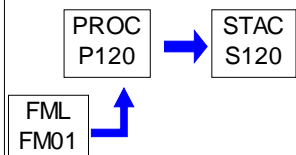
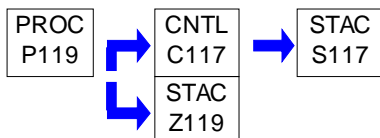
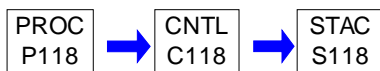
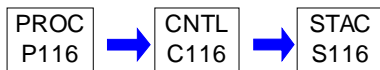
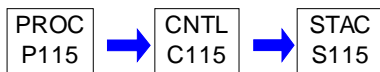
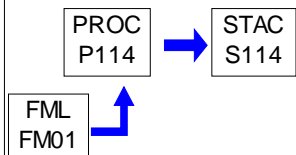
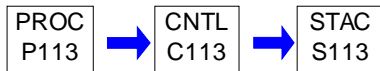


PERMIT MAPS



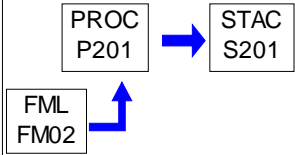


PERMIT MAPS





PERMIT MAPS



**SECTION B. General Title V 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 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 121.7]**Prohibition of Air Pollution**

No person may permit air pollution as that term is defined in the act.

#003 [25 Pa. Code § 127.512(c)(4)]**Property Rights**

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

#004 [25 Pa. Code § 127.446(a) and (c)]**Permit Expiration**

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. The terms and conditions of the expired permit shall automatically continue pending issuance of a new Title V 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. 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.

#005 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e), 127.503 & 127.704(b)]**Permit Renewal**

(a) An application for the renewal of the Title V permit shall be submitted to the Department at least six (6) months, and not more than 18 months, before the expiration date of this permit. The renewal application is timely if a complete application is submitted to the Department's Regional Air Manager within the timeframe specified in this permit condition.

(b) The application for permit renewal shall include the current permit number, the appropriate permit renewal fee, a description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.

(c) 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. The application for renewal of the Title V permit shall also include submission of compliance review forms which have been used by the permittee to update information submitted in accordance with either 25 Pa. Code § 127.412(b) or § 127.412(j).

(d) 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 during the permit renewal process. The permittee shall also promptly provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

#006 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]**Transfer of Ownership or Operational Control**

(a) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership or operational control of the source shall be treated as an administrative amendment if:

(1) The Department determines that no other change in the permit is necessary;

(2) 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,

(3) A compliance review form has been submitted to the Department and the permit transfer has been approved by

**SECTION B. General Title V Requirements**

the Department.

(b) In accordance with 25 Pa. Code § 127.464(a), this permit may not be transferred to another person except in cases of transfer-of-ownership which are documented and approved to the satisfaction of the Department.

#007 [25 Pa. Code § 127.513, 35 P.S. § 4008 and § 114 of the CAA]**Inspection and Entry**

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

- (1) Enter at reasonable times upon the permittee's premises where a Title V 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 or remove, at reasonable times, records that are kept under the conditions of this permit;
- (3) Inspect at reasonable times, 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, 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.

(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.

#008 [25 Pa. Code §§ 127.25, 127.444, & 127.512(c)(1)]**Compliance Requirements**

(a) The permittee shall comply with the conditions of this permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one (1) 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 to the source are 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 Title V permit.

#009 [25 Pa. Code § 127.512(c)(2)]**Need to Halt or Reduce Activity Not a Defense**

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

**SECTION B. General Title V Requirements****#010 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]****Duty to Provide Information**

(a) The permittee shall furnish to the Department, within a reasonable time, information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit.

(b) Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such records directly to the Administrator of EPA along with a claim of confidentiality.

#011 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]**Reopening and Revising the Title V Permit for Cause**

(a) This Title V permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay a permit condition.

(b) This permit may be reopened, revised and reissued prior to expiration of the permit under one or more of the following circumstances:

(1) Additional applicable requirements under the Clean Air Act or the Air Pollution Control Act become applicable to a Title V facility with a remaining permit term of three (3) or more years prior to the expiration date of this permit. The Department will revise the permit as expeditiously as practicable but not later than 18 months after promulgation of the applicable standards or regulations. No such revision is required if the effective date of the requirement is later than the expiration date of this permit, unless the original permit or its terms and conditions has been extended.

(2) Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator of EPA, excess emissions offset plans for an affected source shall be incorporated into the permit.

(3) The Department or the EPA determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

(4) The Department or the Administrator of EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

(c) Proceedings to revise this permit shall follow the same procedures which apply to initial permit issuance and shall affect only those parts of this permit for which cause to revise exists. The revision shall be made as expeditiously as practicable.

(d) Regardless of whether a revision is made in accordance with (b)(1) above, the permittee shall meet the applicable standards or regulations promulgated under the Clean Air Act within the time frame required by standards or regulations.

#012 [25 Pa. Code § 127.543]**Reopening a Title V Permit for Cause by EPA**

As required by the Clean Air Act and regulations adopted thereunder, this permit may be modified, reopened and reissued, revoked or terminated for cause by EPA in accordance with procedures specified in 25 Pa. Code § 127.543.

#013 [25 Pa. Code § 127.522(a)]**Operating Permit Application Review by the EPA**

The applicant may be required by the Department to provide a copy of the permit application, including the compliance plan, directly to the Administrator of the EPA. Copies of title V permit applications to EPA, pursuant to 25 PA Code §127.522(a), shall be submitted, if required, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

**SECTION B. General Title V Requirements****#014 [25 Pa. Code § 127.541]****Significant Operating Permit Modifications**

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with 25 Pa. Code § 127.541. Notifications to EPA, pursuant to 25 PA Code §127.522(a), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#015 [25 Pa. Code §§ 121.1 & 127.462]**Minor Operating Permit Modifications**

The permittee may make minor operating permit modifications (as defined in 25 Pa. Code §121.1), on an expedited basis, in accordance with 25 Pa. Code §127.462 (relating to minor operating permit modifications). Notifications to EPA, pursuant to 25 PA Code §127.462(c), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#016 [25 Pa. Code § 127.450]**Administrative Operating Permit Amendments**

(a) The permittee may request administrative operating permit amendments, as defined in 25 Pa. Code §127.450(a). Copies of request for administrative permit amendment to EPA, pursuant to 25 PA Code §127.450(c)(1), if required, shall be submitted to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

(b) Upon final action by the Department granting a request for an administrative operating permit amendment covered under §127.450(a)(5), the permit shield provisions in 25 Pa. Code § 127.516 (relating to permit shield) shall apply to administrative permit amendments incorporated in this Title V Permit in accordance with §127.450(c), unless precluded by the Clean Air Act or the regulations thereunder.

#017 [25 Pa. Code § 127.512(b)]**Severability Clause**

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

#018 [25 Pa. Code §§ 127.704, 127.705 & 127.707]**Fee Payment**

(a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees). The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

(b) Emission Fees. The permittee shall, on or before September 1st of each year, pay applicable annual Title V emission fees for emissions occurring in the previous calendar year as specified in 25 Pa. Code § 127.705. The permittee is not required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant emitted from the facility.

(c) As used in this permit condition, the term "regulated pollutant" is defined as a VOC, each pollutant regulated under Sections 111 and 112 of the Clean Air Act and each pollutant for which a National Ambient Air Quality Standard has been promulgated, except that carbon monoxide is excluded.

**SECTION B. General Title V Requirements**

(d) Late Payment. Late payment of emission fees will subject the permittee to the penalties prescribed in 25 Pa. Code § 127.707 and may result in the suspension or termination of the Title V permit. The permittee shall pay a penalty of fifty percent (50%) of the fee amount, plus interest on the fee amount computed in accordance with 26 U.S.C.A. § 6621(a)(2) from the date the emission fee should have been paid in accordance with the time frame specified in 25 Pa. Code § 127.705(c).

(e) The permittee shall pay an annual operating permit maintenance fee according to the following fee schedule established in 25 Pa. Code § 127.704(d) on or before December 31 of each year for the next calendar year.

(1) Eight thousand dollars (\$8,000) for calendar years 2021—2025.

(2) Ten thousand dollars (\$10,000) for calendar years 2026—2030.

(3) Twelve thousand five hundred dollars (\$12,500) for the calendar years beginning with 2031.

#019 [25 Pa. Code §§ 127.14(b) & 127.449]**Authorization for De Minimis Emission Increases**

(a) This permit authorizes de minimis emission increases from a new or existing source in accordance with 25 Pa. Code §§ 127.14 and 127.449 without the need for a plan approval or prior issuance of a permit modification. The permittee shall provide the Department with seven (7) days prior written notice before commencing any de minimis emissions increase that would result from either: (1) a physical change of minor significance under § 127.14(c)(1); or (2) the construction, installation, modification or reactivation of an air contamination source. 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.

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

(b) Except as provided below in (c) and (d) of this permit condition, the permittee is authorized during the term of this permit 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 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 or 25 Pa. Code Article III.

(c) In accordance with § 127.14, the permittee may install the following minor sources without the need for a plan approval:

(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.

**SECTION B. General Title V Requirements**

(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, liquefied petroleum gas 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.

(d) 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 (b)(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 the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(4) Changes which are modifications under any provision of Title I of the Clean Air Act and emission increases which would exceed the allowable emissions level (expressed as a rate of emissions or in terms of total emissions) under the Title V permit.

(e) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) shall extend to the changes made under 25 Pa. Code § 127.449 (relating to de minimis emission increases).

(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 allowed under this permit, 25 Pa. Code § 127.449, or sources and physical changes meeting the requirements of 25 Pa. Code § 127.14, the permittee is prohibited from making physical 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.

#020 [25 Pa. Code §§ 127.11a & 127.215]**Reactivation of Sources**

(a) The permittee may reactivate a source at the facility that has been out of operation or production for at least one year, but less than or equal to five (5) years, if the source is reactivated in accordance with the requirements of 25 Pa. Code §§ 127.11a and 127.215. The reactivated source will not be considered a new source.

(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).

#021 [25 Pa. Code §§ 121.9 & 127.216]**Circumvention**

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the

**SECTION B. General Title V Requirements**

phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) 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 this permit, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#022 [25 Pa. Code §§ 127.402(d) & 127.513(1)]**Submissions**

(a) 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 on the permit transmittal letter, or otherwise notified)

(b) Any report or notification for the EPA Administrator or EPA Region III should be addressed to:

Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, PA 19103-2852

The Title V compliance certification shall be emailed to EPA at R3_APD_Permits@epa.gov.

(c) An application, form, report or compliance certification submitted pursuant to this permit condition shall contain certification by a responsible official as to truth, accuracy, and completeness as required under 25 Pa. Code § 127.402(d). Unless otherwise required by the Clean Air Act or regulations adopted thereunder, this certification and any other certification required pursuant to this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

#023 [25 Pa. Code §§ 127.441(c) & 127.463(e); Chapter 139; & 114(a)(3), 504(b) of the CAA]**Sampling, Testing and Monitoring Procedures**

(a) The permittee shall perform the emissions monitoring and analysis procedures or test methods for applicable requirements of this Title V permit. In addition to the sampling, testing and monitoring procedures specified in this permit, the Permittee shall comply with any additional applicable requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) The sampling, testing and monitoring required under the applicable requirements of this permit, shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139 unless alternative methodology is required by the Clean Air Act (including §§ 114(a)(3) and 504(b)) and regulations adopted thereunder.

#024 [25 Pa. Code §§ 127.511 & Chapter 135]**Recordkeeping Requirements**

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

- (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.

**SECTION B. General Title V Requirements**

(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 the 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. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

#025 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]**Reporting Requirements**

(a) The permittee shall comply with the reporting requirements for the applicable requirements specified in this Title V permit. In addition to the reporting requirements specified herein, the permittee shall comply with any additional applicable reporting requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) Pursuant to 25 Pa. Code § 127.511(c), the permittee shall submit reports of required monitoring at least every six (6) months unless otherwise specified in this permit. Instances of deviations (as defined in 25 Pa. Code § 121.1) from permit requirements shall be clearly identified in the reports. The reporting of deviations shall include the probable cause of the deviations and corrective actions or preventative measures taken, except that sources with continuous emission monitoring systems shall report according to the protocol established and approved by the Department for the source. The required reports shall be certified by a responsible official.

(c) Every report submitted to the Department under this permit condition shall comply with the submission procedures specified in Section B, Condition #022(c) of this permit.

(d) Any records, reports or information obtained by the Department or referred to in a public hearing shall be made available to the public by the Department except for such records, reports or information for which the permittee has shown cause that the documents should be considered confidential and protected from disclosure to the public under Section 4013.2 of the Air Pollution Control Act and consistent with Sections 112(d) and 114(c) of the Clean Air Act and 25 Pa. Code § 127.411(d). The permittee may not request a claim of confidentiality for any emissions data generated for the Title V facility.

#026 [25 Pa. Code § 127.513]**Compliance Certification**

(a) One year after the date of issuance of the Title V permit, and each year thereafter, unless specified elsewhere in the permit, the permittee shall submit to the Department and EPA Region III a certificate of compliance with the terms and conditions in this permit, for the previous year, including the emission limitations, standards or work practices. This certification shall include:

- (1) The identification of each term or condition of the permit that is the basis of the certification.
- (2) The compliance status.
- (3) The methods used for determining the compliance status of the source, currently and over the reporting period.
- (4) Whether compliance was continuous or intermittent.

(b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department in accordance with the submission requirements specified in Section B, Condition #022 of this permit. The Title V compliance certification shall be emailed to EPA at R3_APD_Permits@epa.gov.

**SECTION B. General Title V Requirements****#027 [25 Pa. Code § 127.3]****Operational Flexibility**

The permittee is authorized to make changes within the Title V facility in accordance with the following provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements of Section 502(b)(10) of the Clean Air Act and Section 6.1(i) of the Air Pollution Control Act:

- (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)
- (6) Section 127.462 (relating to minor operating permit amendments)
- (7) Subchapter H (relating to general plan approvals and operating permits)

#028 [25 Pa. Code §§ 127.441(d), 127.512(i) and 40 CFR Part 68]**Risk Management**

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the Title V facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:

- (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
 - (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
 - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

(d) If the Title V facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:

- (1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,
- (2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

**SECTION B. General Title V Requirements**

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

(f) When the Title V facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if:

(1) The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Section B, Condition #026 of this permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

#029 [25 Pa. Code § 127.512(e)]**Approved Economic Incentives and Emission Trading Programs**

No permit revision shall be required under approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this Title V permit.

#030 [25 Pa. Code §§ 127.516, 127.450(d), 127.449(f) & 127.462(g)]**Permit Shield**

(a) The permittee's compliance with the conditions of this permit shall be deemed in compliance with applicable requirements (as defined in 25 Pa. Code § 121.1) as of the date of permit issuance if either of the following applies:

(1) The applicable requirements are included and are specifically identified in this permit.

(2) The Department specifically identifies in the permit other requirements that are not applicable to the permitted facility or source.

(b) Nothing in 25 Pa. Code § 127.516 or the Title V permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act, including the authority of the Administrator of the EPA provided thereunder.

(2) The liability of the permittee for a violation of an applicable requirement prior to the time of permit issuance.

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act.

(4) The ability of the EPA to obtain information from the permittee under Section 114 of the Clean Air Act.

(c) Unless precluded by the Clean Air Act or regulations thereunder, final action by the Department incorporating a significant permit modification in this Title V Permit shall be covered by the permit shield at the time that the permit containing the significant modification is issued.

#031 [25 Pa. Code §135.3]**Reporting**

(a) 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 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.

#032 [25 Pa. Code §135.4]**Report Format**

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 §127.441]****Operating permit terms and conditions.**

- (a) The combined total volatile organic compounds emissions shall not equal or exceed 50 tons in any twelve consecutive month period.
- (b) The combined total of all hazardous air pollutants emissions shall not equal or exceed 25 tons in any twelve consecutive month period.
- (c) The combined total of any single hazardous air pollutant emissions shall not equal or exceed 10 tons in any twelve consecutive month period.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 123.1 and 123.2]

- (a) No person may permit the emission into the outdoor atmosphere of fugitive air contaminants 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) Sources and classes of sources other than those identified above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (i) The emissions are of minor significance with respect to causing air pollution.
 - (ii) The emissions are not preventing or interfering with the attainment or maintenance of an ambient air quality standard.
- (b) No person may permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in paragraphs (a)(1) through (6), above if the emissions are visible at the point the emissions pass outside the person's property.

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

[Authority is also derived from 25 Pa. Code sections 123.41 and 123.42]

- (a) No person may 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 three minutes in any 1 hour.
 - (2) Equal to or greater than 60% at any time.
- (b) The emission limitations specified in (a)(1) and (2), above shall not apply when:
- (1) The presence of uncombined water is the only reason for failure of the emission to meet the limitations.
 - (2) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.

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

[Authority is also derived from 25 Pa. Code section 123.31]

No person may permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

Fuel Restriction(s).**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

All stationary fuel-burning air contamination sources at this facility shall use only natural gas as fuel to operate, except for the diesel fire pump engine associated with Source ID P201 authorized herein.

Throughput Restriction(s).**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

(a) The facility shall not process any naturally-occurring gypsum unless Department approval is first obtained. Synthetic gypsum from Montour Steam Electric Station shall be received by conveyor except as provided below. Synthetic gypsum from sources other than Montour Steam Electric Station may be received by truck or railcar.

(b) If the conveyor from Montour Steam Electric Station is not operational, synthetic gypsum truck deliveries from the Montour Steam Electric Station may be received for up to 30 days after the date on which the conveyor was shut-down for repair, unless otherwise extended by the Department. The permittee shall report each conveyor malfunction to the Department within 5 days of discovery, including the dates for which the conveyor is projected to be offline for repair(s). Within 15 days after completion of the repair(s), the permittee shall provide to the Department the date(s) in which synthetic gypsum truck deliveries were received as well as a description of the repair(s) to the conveyor.

(c) Synthetic gypsum from the Montour Steam Electric Station may also be delivered via truck in the case of potential quality issues.

(d) No more than 1,100,000 tons of gypsum shall be delivered to the facility by railcar or truck in any 12 consecutive month period. Any portion of this 1,100,000 tons may be delivered by railcar and any portion may be delivered by truck.

(e) The permittee shall not receive any synthetic gypsum that is not universally approved for beneficial use. The permittee for all gypsum that is generated as a waste and used as a product shall have submitted supporting documentation to the Department and received approval prior to the material being brought on site.

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

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

No more than 1,100,000 tons of synthetic gypsum shall be processed at this facility in any 12 consecutive month period.

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

[Authority is also derived from 25 Pa. Code Section 123.43]

Visible emissions may be measured using either of the following:

(1) A device approved by the Department and maintained to provide accurate opacity measurements.

**SECTION C. Site Level Requirements**

(2) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

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

[Authority is also derived from 25 Pa. Code sections 139.1 and 139.16]

Upon the request of the Department, the permittee shall provide adequate sampling ports, safe sampling platforms, and adequate utilities for the performance of tests on a source or a fuel. The Department will set forth, in the request, the time period in which these facilities shall be provided as well as the specifications for such facilities.

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

[Authority is also derived from 25 Pa. Code Section 139.11]

(a) As specified in 25 Pa. Code Section 139.11(1), performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

(b) As specified in 25 Pa. Code Section 139.11(2), the Department will consider test results for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, as a minimum, all of the following:

- (1) A thorough source description, including a description of any air cleaning devices and the flue.
- (2) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature, and other conditions which may affect emissions from the process.
- (3) The location of sampling ports.
- (4) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage of CO, CO₂, O₂ and N₂), static and barometric pressures.
- (5) Sample collection techniques employed, including procedures used, equipment descriptions, and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.
- (6) Laboratory procedures and results.
- (7) Calculated results.

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

[Authority is also derived from 25 Pa. Code section 127.511]

The permittee shall conduct an inspection of the facility once per every calendar day, at least, while the facility is in operation. Daily inspections shall be conducted during daylight to detect for the presence of visible emissions, visible fugitive emissions and malodors. All visible emissions, visible fugitive emissions, or malodors that are detected shall be reported to the manager of the facility.

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

(a) Pursuant to 25 Pa. Code § 139.3, at least 90 calendar days prior to commencing a EPA reference method testing program, a test protocol shall be submitted to the Department for review and approval. One electronic copy shall be sent to the Northcentral Regional Office Air Quality Program Manager and one electronic copy shall be sent to the PSIMS Administrator in Central Office. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

**SECTION C. Site Level Requirements**

(b) Pursuant to 25 Pa. Code § 139.3, at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the Northcentral Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(c) If applicable, pursuant to 40 CFR § 60.8(a), 40 CFR § 61.13(f) and 40 CFR § 63.7(g), complete test reports shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an EPA reference method test program.

(d) Pursuant to 25 Pa. Code § 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or noncompliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
2. Permit number(s) and condition(s) which are the basis for the evaluation.
3. Summary of results with respect to each applicable permit condition.
4. Statement of compliance or non-compliance with each applicable permit condition.

(e) Pursuant to 25 Pa. Code § 139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(f) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.

(g) Pursuant to 25 Pa. Code § § 139.53(a)(1) and 139.53(a)(3), electronic copies of all submittals, besides notifications, shall be sent to the Northcentral Regional Office Air Quality Program Manager, with deadlines verified. In addition, an electronic copy shall be sent to the PSIMS Administrator in Central Office. Email addresses are provided on the PA DEP website.

(h) The permittee shall insure all federal reporting requirements contained in the applicable subpart of 40 CFR are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between state and the federal, the most stringent provision, term, condition, method or rule shall be used by default.

III. MONITORING REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority is also derived from 25 Pa. Code section 127.511]

The permittee shall monitor the quantities of all synthetic gypsum delivered and processed.

IV. RECORDKEEPING REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall generate and keep monthly records of the required monitoring data and emissions calculations including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements of Title V Permit No: 47-00014, on a calendar month and 12-month rolling basis to verify the combined total VOC and HAP emissions from the source (Washingtonville Plant) are below all the respective major threshold limitations.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority for this permit condition is also derived from 25 Pa. Code Section 127.511]

**SECTION C. Site Level Requirements**

The permittee shall keep records of the natural gas fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract, along with the supporting calculations as necessary, verifying that the natural gas used as fuel to operate the respective sources herein is demonstrated not to exceed potential sulfur emissions of 0.0006 pounds of sulfur dioxide per million Btu of heat input, or conduct representative fuel sampling and analyses, annually.

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

[Authority is also derived from 25 Pa. Code section 127.511]

The permittee shall maintain daily records of each facility-wide inspection performance for the presence of visible stack emissions, visible fugitive emissions and malodors which shall include the date and time and the operating personnel for each performance, as well as a description of any corrective action taken to abate the occurrence and/or to prevent future ones, as applicable.

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

[Authority is also derived from 25 Pa. Code section 127.511]

(a) The permittee shall generate and keep monthly records of the required monitoring data and information including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements, to verify compliance with the delivered and processed synthetic gypsum throughput restrictions. Additionally, the monitoring data shall be reduced to show the total quantities (tons) of the synthetic gypsum delivered by truck, the total quantities (tons) of the synthetic gypsum delivered by railcar, and the total quantities (tons) of the synthetic gypsum processed in the facility on a calendar month and 12-month rolling basis.

(b) The permittee shall generate and keep monthly records of the quantity (scf) of natural gas used in the entire facility on a calendar month and 12-month rolling basis.

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

[Authority is also derived from 25 Pa. Code section 135.5]

The permittee shall maintain records including computerized records that may be necessary to comply with 25 Pa. Code Sections 135.3 and 135.21 (relating to reporting and emissions statements). These 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.

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

[Authority is also derived from 25 Pa. Code section 127.511]

All records required herein, including supporting information, shall be kept at the facility for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall submit semi-annual reports to the Department listing the following for the source (the Washingtonville Plant):

(1) The combined total VOC emissions on a calendar month and 12-month rolling basis from the wallboard production operations including all source equipment, raw materials, combustion units, processes and other identified VOC-emitting activities; and

(2) The combined total HAP emissions on a calendar month and 12-month rolling basis from the wallboard production operations including all source equipment, raw materials, combustion units, processes and other identified VOC-emitting activities.

**SECTION C. Site Level Requirements**

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 of each year for the immediately-preceding January through June six month reporting period and March 1 of each year for the immediately-preceding July through December six month reporting period.

021 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.442 and 127.511]

(a) The permittee shall report malfunctions 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. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

(b) Failures that are caused in part by poor maintenance or careless operation shall be reported as excess emissions or deviations from the operating permit requirements.

(c) When the malfunction, excess emissions or deviation from this operating permit requirements poses an imminent danger to the public health, safety, welfare, or environment shall be reported by telephone to the Department and the County Emergency Management Agency within one (1) hour after the incident. The owner or operator shall submit a written report of instances of such incidents to the Department within three (3) business days of the telephone report.

(d) Except as reported to the Department in accordance with 25 Pa. Code Chapter 139 and the Department's Continuous Source Monitoring Manual, any malfunction or excess emissions that is not subject to the notice requirements of subsection (c) of this operating permit condition shall be reported to the Department within 24 hours of discovery or the next business day. In notifying the Department, the permittee shall describe the following:

- (i) name and location of the facility;
- (ii) nature and cause of the malfunction or breakdown;
- (iii) time when the malfunction or breakdown was first observed;
- (iv) expected duration of excess emissions;
- (v) estimated rate of emissions; and
- (vi) corrective actions or preventative measures taken.

(e) The permittee shall notify the Department immediately when corrective measures have been accomplished.

(f) Upon the request of the Department, the permittee shall submit a full written report to the Regional Air Program Manager within 15 days of the malfunction, excess emissions or deviation from the operating permit requirements.

022 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code section 127.511]

The permittee shall submit the annual compliance certifications to the Department and EPA Region III, as specified in Condition #026 of Section B, General Title V Requirements, no later than September 1 (for the reporting period from July of the previous year through June of the concurrent year).

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

[Authority is also derived from 25 Pa. Code section 127.511]

The permittee shall submit semi-annual reports of the required monitoring for synthetic gypsum delivered and the required monitoring for synthetic gypsum processed to the Department, as specified in Condition #025 of Section B, (General Title V Requirements), herein. The information in each semi-annual report submittal shall include the required monitoring that

**SECTION C. Site Level Requirements**

shall be reduced to report: the total tons of synthetic gypsum by truck deliveries; the total tons of synthetic gypsum by railcar; the total tons of synthetic gypsum processed and the total natural gas usage for the entire facility on a per calendar month and 12-month rolling basis for each month in the reporting period. The semi-annual reports are required to be submitted no later than September 1 for the reporting period from January through June (in the concurrent year) and no later than March 1 for the reporting period from July through December (of the previous year).

024 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code Section 135.4]

Source reports shall contain sufficient information to enable the Department to complete its emission inventory. Source reports shall be made by the permittee in a format specified by the Department, including electronic submission.

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

(a) The permittee shall submit to the Air Program Manager all requests, reports, applications, submittals, and other communications concerning applicable federal NSPS and NESHAP.

(b) In accordance with 40 CFR §§ 60.4 and 63.10, copies of all requests, reports, applications, submittals, and other communications shall also be submitted to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI) accessible at <https://cdx.epa.gov> unless electronic reporting is not available, in which case a copy shall be sent to the following address:

United States Environmental Protection Agency
Region III Office of Air Enforcement and Compliance Assistance (3AP20)
1650 Arch St.
Philadelphia, PA 19103-2029

VI. WORK PRACTICE REQUIREMENTS.**# 026 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) When filter or bag issues are noted for any fabric collector or filter receiver at the facility except for ID's C101, C102 (Mill fabric collectors) and C103, C104 (Kettle fabric collectors), the permittee shall replace all filters or bags in the affected unit.

(b) The permittee shall install, calibrate, operate, and maintain each bag leak detection monitor on Sources P101 through P104 according to the Bag Leak Detection Monitoring Plan dated October 13, 2020, as well as the Alarm Setpoint Guidance dated June 12, 2023. The Bag Leak Detection Monitoring Plan procedures are incorporated herein by reference. Any revision of the plan shall be approved by the Department.

027 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code section 123.1]

The permittee shall take all reasonable actions for any source specified in condition #001 under Section C herein to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

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

**SECTION C. Site Level Requirements****# 028 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

All facility roadways for deliveries and shipments shall be paved and properly maintained so as to prevent particulate matter from becoming airborne.

029 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

An operable vacuum-type road sweeper shall be maintained on-site at all times and shall be used, as needed, to remove dust from roadways. The use of non-vacuum road sweepers is prohibited.

VII. ADDITIONAL REQUIREMENTS.**# 030 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The permittee shall establish, and enforce, a vehicle speed limit of 15 miles per hour on all plant roadways. This speed limit shall be posted in highly visible locations along the respective roadways.

031 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

In addition to Source IDs P110 (HRA Landplaster Feed Bin 1), P111 (HRA Ball Mill Vent Filter Fan), P117 (Waste Reclaim Hopper) and P118 (Waste Vacuum Receiver), the permittee also operates a HRA Mill #2, and two (2) Additive Refill Bins #1 and #2. All the above sources shall be controlled by appropriately-designed fabric collector. None of these fabric collectors shall be vented to the outside atmosphere. The permittee also operates four (4) feeders that vent inside the plant.

032 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code section 121.7]

No person may permit air pollution as that term is defined in the act [The Air Pollution Control Act (35 P.S. §§ 4001-4015)].

033 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee may process natural gypsum fines deliveries on a limited, temporary basis not to exceed one truckload on a per calendar month basis until completion of the natural gypsum rock project startup. The permittee shall maintain records of the date of each natural gypsum fines delivery, the amount each truck delivered (ton/month), and the total amount of natural gypsum fine deliveries in any 12 consecutive month period (ton/yr).

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

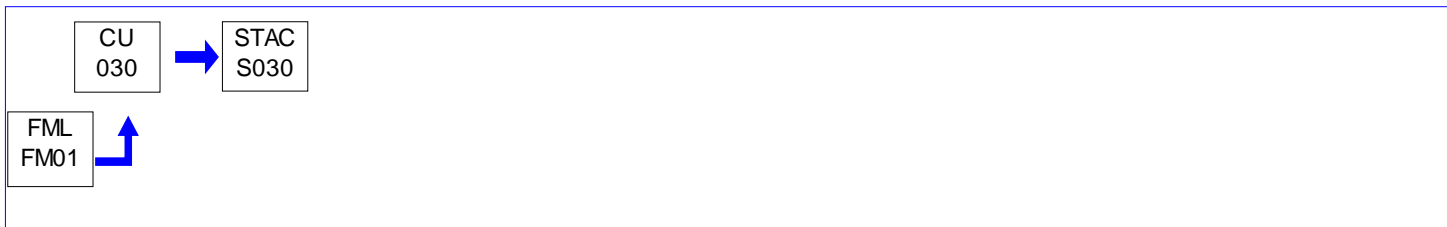
***** Permit Shield In Effect *****

**SECTION D. Source Level Requirements**

Source ID: 030

Source Name: COMBUSTION UNITS

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

Source 030 shall not emit particulate matter in excess of the rate of 0.4 pounds per million Btu of heat input.

002 [25 Pa. Code §123.22]**Combustion units**

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as sulfur dioxide, from Source 030 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

[Authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source ID 030 consists of the following heaters:

**SECTION D. Source Level Requirements**

a 9 million Btu per hour natural gas-fired gauging water heater;

a 0.5 million Btu per hour natural gas-fired water heater constructed in 2010. This unit is used in the operation of the additive filter receiver associated with Source ID P112;

a 0.3 million Btu per hour natural gas-fired gas heater constructed in or around 2016;

five (5) 60,000 Btu per hour natural gas-fired heaters in wet end;

five (5) 60,000 Btu per hour natural gas-fired heaters in storeroom;

six (6) 60,000 Btu per hour natural gas-fired heaters in warehouse; and

a 60,000 Btu per hour natural gas-fired heaters in wet board handling;

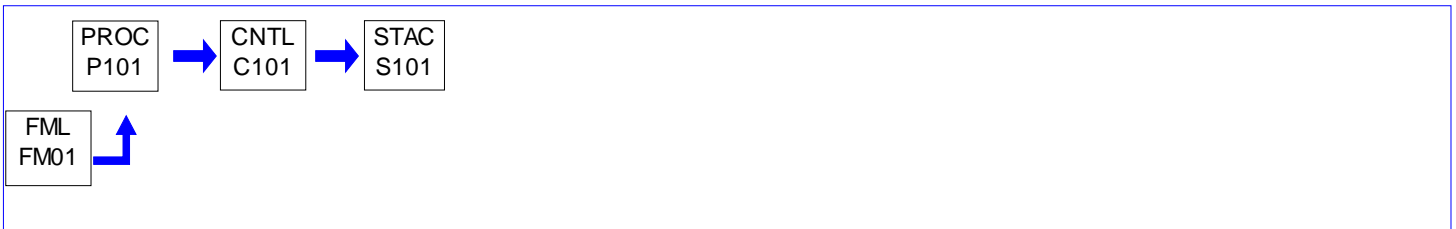
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P101

Source Name: DRYER MILL 1 & HAMMER MILL 1

Source Capacity/Throughput: 35.000 MMBTU/HR

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

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The concentration of particulate matter (PM) and the concentration of particulate matter with an aerodynamic diameter of 10 microns or less (PM-10) in the exhaust of C101 associated with Source P101 shall not be in excess of 0.009 grain per dry standard cubic foot of effluent gas vented to the atmosphere.

[Compliance with this limit assures compliance with the applicable limits in 25 Pa. Code Section 123.13 and 40 CFR 60.672(a)(1)]

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The nitrogen oxides (NO_x) emissions, expressed as nitrogen dioxide (NO₂), from the exhaust of C101 associated with Source P101 shall not exceed 0.048 pounds per million Btu of heat input and 7.36 tons in any twelve consecutive month period.

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

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The carbon monoxide (CO) emissions from the exhaust of C101 associated with Source P101 shall not exceed 0.2 pounds per million Btu of heat input and 30.66 tons in any twelve consecutive month period.

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

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The sulfur oxides (SO_x) emissions, expressed as sulfur dioxide (SO₂), from the exhaust of C101 associated with Source P101 shall not exceed 0.0006 pounds per million Btu of heat input and 0.09 tons in any twelve consecutive month period.

[Compliance with the short-term SO_x emission rate in this permit condition assures compliance with the applicable limitation as required by 25 Pa. Code section 123.21]

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

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The volatile organic compound (VOC) emissions from the exhaust of C101 associated with Source P101 shall not exceed 0.02 pounds per million Btu of heat input and 3.07 tons in any twelve consecutive month period.

**SECTION D. Source Level Requirements****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The hazardous air pollutant (HAP) emissions from the exhaust of C101 associated with Source P101 shall not exceed 0.29 tons in any twelve consecutive month period.

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

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

Particulate Matter (PM) and PM-10 from Source P101 shall be controlled by the ID C101 fabric collector, which shall be insulated and equipped with temperature controls. Total PM emissions and total PM-10 emissions for Source ID P101 shall not exceed 13.85 tons in any twelve consecutive month period.

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.672]**Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants****Standard for particulate matter.**

The visible emissions from the exhaust of C101 associated with Source P101 shall not exceed seven percent opacity.

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

[Authority is also derived from 25 Pa. Code Section 127.511]

(a) The permittee shall conduct subsequent stack testing no later than five (5) years following the previous on the exhaust of C101 for emissions of nitrogen oxides (expressed as NO₂), carbon monoxide, volatile organic compound emissions (expressed as propane), particulate matter and PM-10 (filterable and condensable), and opacity while operating at maximum routine operating conditions, to demonstrate compliance with the emission restrictions. The permittee shall also conduct stack testing for opacity, simultaneously with the filterable and condensable particulate matter stack testing.

(b) All stack testing shall be performed in accordance with 25 Pa. Code Chapter 139 and the Site Level testing requirements, herein, using methods and procedures acceptable to the Department.

(c) Notwithstanding the schedule required in paragraph (a), the performance test schedule for the mills may be aligned with the 5-year performance test schedule on the kettles, after completion of the next kettle performance tests, as required herein under the respective source level section requirements.

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

(a) Reserved.

(b) The permittee shall conduct subsequent performance evaluations of the required bag leak detection installation as per the manufacturer specifications.

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

[Authority is also derived from 40 CFR Part 64]

The permittee shall conduct concurrently while Source ID P101/C101 are in operation daily visual observations during daylight hours at the blower exhaust for ID C101 in order to verify compliance, as per the CAM plan for the emissions unit which is incorporated by reference herein.

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

[Authority is also derived from 40 CFR Part 64]

[Authority is also derived from 25 Pa. Code section 127.511]

- (a) At all times when Source ID P101 is operating the permittee shall use a bag leak detection monitoring system in continuous fashion to verify on-going compliance with the BAT standard for PM and PM-10. [40 CFR 64.4(e)]
- (b) The design of the monitoring installation, as required above, shall satisfy the applicable criteria under 40 CFR section 64.3 and the other applicable requirements, below. In addition, the permittee shall submit a site-specific monitoring plan that provides manufacturer's recommended procedures and specifications and good engineering practices for installing, testing and performing any other appropriate activities prior to use of the monitoring system, as well as a test protocol for the initial performance evaluation.
- (c) The required bag leak detection monitoring plan for Source ID C101 shall at a minimum address the following:
- (1) Installation of the sensors or other interface at a measurement location relative to the affected process unit such that the measurement is representative of performance of the ID C101 fabric collector. In addition, bag leak detection sensors shall be installed in positions that will be representative of the relative or absolute PM loadings at locations downstream relative to the ID C101 fabric collector filters or baghouse, to identify and isolate filter bag issues within the unit;
- (2) The performance and equipment specifications for the bag leak detection monitoring system, as well as the data collection and reduction devices. Specifically, the required bag leak detection installation shall be certified by the manufacturer to be capable of detecting PM emissions at concentrations consistent with good engineering practices for Source ID P101/C101. In addition, the monitoring system shall alert plant operating personnel when an increase in PM emissions over a preset level indicative of compliance is detected and shall be equipped with device(s) to record continuously the output signals from the sensors to reduce the collected data for the reporting of exceedances (and excursions, if applicable);
- (3) Initial performance evaluation procedures, and acceptance criteria for the initial performance evaluation, consistent with US EPA methodology/guidance. In addition, any PM emission testing required for the initial performance evaluation shall use methods and procedures consistent with 25 Pa. Code Chapter 139; and
- (4) Ongoing operation and maintenance procedures; ongoing data quality assurance procedures and ongoing recordkeeping and reporting procedures for the required bag leak detection installation, to verify that the monitoring system (once equipped) is installed, calibrated, operated and maintained in accordance with the manufacturer's recommended procedures and specifications and with good engineering practices for continuous baghouse performance monitoring based on measurements of the relative or absolute PM loadings (outlet).

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

[Authority is also derived from 25 Pa. Code section 127.511]

- (a) The permittee shall conduct periodic monitoring on a calendar quarter basis including a minimum of 2 months between each quarterly performance of the monitoring for NO_x and CO concentrations in the effluent gas vented to atmosphere by Source ID P101 using Department approved testing procedures to verify compliance with the NO_x and CO emission limitations.
- (b) Reserved.
- (c) If a monitoring performance fails to verify compliance, the permittee shall submit written or email notification to the Department no later than 3 days after the performance of the monitoring. The notification shall include the scheduled date of the Source ID P101 combustion process tune-up. Once corrected, the permittee shall notify the Department with a report describing findings and results of the tune-up.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code section 127.511]

The permittee shall maintain monthly records pertaining to the operation of Source ID P101. The records at a minimum shall include the following information:

- (1) Total emission (pounds) of NO₂, CO, PM, PM-10, VOC, SO₂, and HAP from Source ID P101 (including startups, shutdowns, and malfunctions) on a per calendar month and 12-month rolling basis, as well as supporting information for each emission calculation;
- (2) Total natural gas consumed (scf) by Source P101 on a per calendar month and 12-month rolling basis;
- (3) Total hours Source ID P101 operated on a per calendar month and 12-month rolling basis; and
- (4) Copies of each Stack Test/Compliance Performance and Emission Testing Report for ID C101.

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

[Authority is also derived from 25 Pa. Code section 127.511]

[Authority is also derived from 40 CFR Part 64]

The permittee shall maintain daily records for all required monitoring for Source ID P101, (including continuous bag leak detection monitoring and daily visual observation of ID C101 blower exhaust), in accordance with condition #024 of section B, herein. The records shall also include all information as required in 40 CFR section 64.9(b), (relating to General recordkeeping requirements).

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

[Authority is also derived from 25 Pa. Code Section 127.511]

The permittee shall maintain records pertaining to the performed tune-ups of the combustion process/burner for Source ID P101. The records shall include at a minimum the following information:

- (1) Date of each tune-up performance; and
- (2) A detailed account of findings and results of each tune-up, including the final carbon monoxide emission rate and the final nitrogen oxides emission rate, in units of lb/mmBtu, as well as the final excess oxygen percentage

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

[Authority is also derived from 25 Pa. Code section 127.511]

The permittee shall maintain records to demonstrate compliance with the periodic monitoring requirements for Source ID P101 in a manner that the records shall include enough information/data and calculations to verify compliance with the NO_x and CO emission limitations. See section B condition #024 for further details.

018 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants
Reporting and recordkeeping.**

The permittee shall comply with all of the applicable recordkeeping requirements specified in 40 CFR 60.676.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.****# 019 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 40 CFR Part 64]

(a) The permittee shall submit semi-annual reports to the Department pertaining to required monitoring for Source ID P101 which is listing:

(1) Quantity of excursions and/or exceedances and the duration and probable cause (including unknown cause, if applicable) of each excursion or exceedance, as applicable based on the required monitoring, in the reporting period as well as a description of the corrective actions taken to abate each; and

(2) For the required continuous bag leak detection monitoring for Source ID P101, the number, duration and cause (including unknown cause, if applicable) of each monitor downtime incident, as well as percentage of the time periods within the reporting period for which the monitoring applied but valid monitoring data was not available.

(b) Semi-annual reports shall be submitted to the Department by no later than September 1 for the reporting period from January through June (of the concurrent year) and March 1 for the reporting period from July through December (in the previous year).

020 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 40 CFR Part 64]

The permittee shall promptly notify the Department if the need for improved monitoring for Source ID P101 is discovered, as outlined 40 CFR Section 64.7(e).

021 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

For the required NOx and CO monitoring on Source ID P101, the permittee shall follow the reporting requirements in section B condition #025.

022 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code section 127.511]

(a) The permittee shall submit semi-annual reports to the Department listing:

(1) The total amount of natural gas consumed by Source ID P101 per calendar month;

(2) The total hours of operation of Source ID P101 per calendar month.

(b) Semi-annual reports shall be submitted to the Department by no later than September 1 for the reporting period from January through June (of the concurrent year) and March 1 for the reporting period from July through December (in the previous year).

023 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants****Reporting and recordkeeping.**

The permittee shall comply with all of the applicable reporting requirements specified in 40 CFR 60.676.

VI. WORK PRACTICE REQUIREMENTS.**# 024 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

A sufficient quantity of spare fabric filter bags for C101 shall be kept on hand at all times in order to replace any worn or damaged bags due to deterioration resulting from routine operation.

**SECTION D. Source Level Requirements****# 025 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code section 127.511]

(a) The permittee shall conduct tune-ups of the Source ID P101 combustion process/burner on an annual basis at least, and each performance shall consist of the following activities:

- (1) Inspection and cleaning of the burners and adjustment or replacement of parts, as needed.
- (2) Inspection of the burner flame patterns and adjustment, as needed, to minimize the emission of nitrogen oxides and, to the extent practicable, the emission of carbon monoxide.
- (3) Inspection of the air-to-fuel ratio control system and adjustment, as needed.

Annual in paragraph (a) means no more than 12 months following the month in which completion of the previous tune-up occurred.

026 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 40 CFR Part 64]

Daily visual observations conducted during daylight hours whenever Source ID P101 is in operation shall be performed only by operating personnel routinely trained consistent with USEPA reference Method 22 to have knowledge and understanding of the effects of background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor) on the visibility of emissions.

027 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code section 127.511]

[Authority is also derived from 40 CFR Part 64]

The permittee shall install, calibrate, operate, and maintain the required bag leak detection monitor for Source ID P101/C101 according to the Department-approved monitoring plan. The Department reserves the authority to require submission of a Quality Improvement Plan, as outlined in 40 CFR section 64.8.

VII. ADDITIONAL REQUIREMENTS.**# 028 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

Source P101 consists of a dryer mill (dryer mill #1) equipped with a Maxon Corporation 40M Kinedizer natural gas-fired burner and a hammer mill (hammer mill #1). The rated heat input of the burner shall not exceed 35 million Btu per hour.

029 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

Dryer mill #1 contained in Source P101 shall be equipped with a low nitrogen oxides (low NOx) burner.

030 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The air compressor(s) supplying compressed air to C101 shall be equipped with an air dryer and an oil trap.

**SECTION D. Source Level Requirements****# 031 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

Source P101 shall not operate if C101 is inoperable.

032 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Source ID P101 is subject to the requirements at 40 CFR Part 64, (relating to Compliance Assurance Monitoring). The permittee shall comply with all applicable requirements pertaining to Source ID P101, as specified in 40 CFR Section 64.1 through 64.10.

033 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall implement measures to ensure that the required bag leak detection monitor installation for Source ID P101 conforms with the criteria for proper maintenance and continued operation, as specified in 40 CFR sections 64.7(b) and (c). The site-specific provisions for the required continuous monitor(s) shall be addressed in the Department-approved monitoring plan, as required herein under Source ID P101 subsection III. Monitoring Requirements.

034 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.670]**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants****Applicability and designation of affected facility.**

Source P101 is subject to the federal Standards of Performance for New Stationary Sources, as codified in 40 CFR Part 60 Subpart OOO. The permittee shall comply with all applicable requirements pertaining to Source ID P101, as specified 40 CFR sections 60.670 through 60.676.

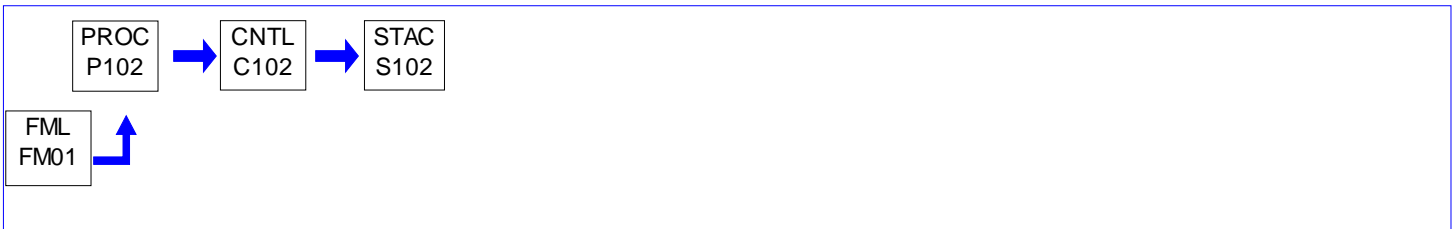
*** **Permit Shield in Effect.** ***

**SECTION D. Source Level Requirements**

Source ID: P102

Source Name: DRYER MILL 2 & HAMMER MILL 2

Source Capacity/Throughput: 35.000 MMBTU/HR

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

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The concentration of particulate matter (PM) and the concentration of particulate matter with an aerodynamic diameter of 10 microns or less (PM-10) in the exhaust of C102 associated with Source P102 shall not be in excess of 0.009 grain per dry standard cubic foot of effluent gas vented to the atmosphere.

[Compliance with this limit assures compliance with the applicable limits in 25 Pa. Code Section 123.13 and 40 CFR 60.672(a)(1)]

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The nitrogen oxides (NO_x) emissions, expressed as nitrogen dioxide (NO₂), from the exhaust of C102 associated with Source P102 shall not exceed 0.048 pounds per million Btu of heat input and 7.36 tons in any twelve consecutive month period.

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

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The carbon monoxide (CO) emissions from the exhaust of C102 associated with Source P102 shall not exceed 0.2 pounds per million Btu of heat input and 30.66 tons in any twelve consecutive month period.

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

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The sulfur oxides (SO_x) emissions, expressed as sulfur dioxide (SO₂), from the exhaust of C102 associated with Source P102 shall not exceed 0.0006 pounds per million Btu of heat input and 0.09 tons in any twelve consecutive month period.

[Compliance with the short-term SO_x emission rate in this permit condition assures compliance with the applicable limitation as required by 25 Pa. Code section 123.21]

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

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The volatile organic compound (VOC) emissions from the exhaust of C102 associated with Source P102 shall not exceed 0.02 pounds per million Btu of heat input and 3.07 tons in any twelve consecutive month period.

**SECTION D. Source Level Requirements****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The hazardous air pollutant (HAP) emissions from the exhaust of C102 associated with Source P102 shall not exceed 0.29 tons in any twelve consecutive month period.

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

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

Particulate Matter (PM) and PM-10 from Source P102 shall be controlled by the ID C102 fabric collector, which shall be insulated and equipped with temperature controls. Total PM emissions and total PM-10 emissions for Source ID P102 shall not exceed 13.85 tons in any twelve consecutive month period.

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.672]**Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants****Standard for particulate matter.**

The visible emissions from the exhaust of C102 associated with Source P102 shall not exceed seven percent opacity.

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

[Authority is also derived from 25 Pa. Code Section 127.511]

(a) The permittee shall conduct subsequent stack testing no later than five (5) years following the previous on the exhaust of C102 for emissions of nitrogen oxides (expressed as NO₂), carbon monoxide, volatile organic compound emissions (expressed as propane), particulate matter and PM-10 (filterable and condensable), and opacity while operating at maximum routine operating conditions, to demonstrate compliance with the emission restrictions. The permittee shall also conduct stack testing for opacity, simultaneously with the filterable and condensable particulate matter stack testing.

(b) All stack testing shall be performed in accordance with 25 Pa. Code Chapter 139 and the Site Level testing requirements, herein, using methods and procedures acceptable to the Department.

(c) Notwithstanding the schedule required in paragraph (a), the performance test schedule for the mills may be aligned with the 5-year performance test schedule on the kettles, after completion of the next kettle performance tests, as required herein under the respective source level section requirements.

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

(a) Reserved.

(b) The permittee shall conduct subsequent performance evaluations of the required bag leak detection installation as per the manufacturer specifications.

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

[Authority is also derived from 40 CFR Part 64]

The permittee shall conduct concurrently while Source ID P102/C102 are in operation daily visual observations during daylight hours at the blower exhaust for ID C102 in order to verify compliance, as per the CAM plan which is incorporated by reference herein.

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

[Authority is also derived from 40 CFR Part 64]

[Authority is also derived from 25 Pa. Code section 127.511]

- (a) At all times when Source ID P102 is operating the permittee shall use a bag leak detection monitoring system in continuous fashion to verify on-going compliance with the BAT standard for PM and PM-10. [40 CFR 64.4(e)]
- (b) The design of the monitoring installation, as required above, shall satisfy the applicable criteria under 40 CFR section 64.3 and the other applicable requirements, below. In addition, the permittee shall submit a site-specific monitoring plan that provides manufacturer's recommended procedures and specifications and good engineering practices for installing, testing and performing any other appropriate activities prior to use of the monitoring system, as well as a test protocol for the initial performance evaluation.
- (c) The required bag leak detection monitoring plan for Source ID C102 shall at a minimum address the following:
- (1) Installation of the sensors or other interface at a measurement location relative to the affected process unit such that the measurement is representative of performance of the ID C102 fabric collector. In addition, bag leak detection sensors shall be installed in positions that will be representative of the relative or absolute PM loadings at locations downstream relative to the ID C102 fabric collector filters or baghouse, to identify and isolate filter bag issues within the unit;
- (2) The performance and equipment specifications for the bag leak detection monitoring system, as well as the data collection and reduction devices. Specifically, the required bag leak detection installation shall be certified by the manufacturer to be capable of detecting PM emissions at concentrations consistent with good engineering practices for Source ID P102/C102. In addition, the monitoring system shall alert plant operating personnel when an increase in PM emissions over a preset level indicative of compliance is detected and shall be equipped with device(s) to record continuously the output signals from the sensors to reduce the collected data for the reporting of exceedances (and excursions, if applicable);
- (3) Initial performance evaluation procedures, and acceptance criteria for the initial performance evaluation, consistent with US EPA methodology/guidance. In addition, any PM emission testing required for the initial performance evaluation shall use methods and procedures consistent with 25 Pa. Code Chapter 139; and
- (4) Ongoing operation and maintenance procedures; ongoing data quality assurance procedures and ongoing recordkeeping and reporting procedures for the required bag leak detection installation, to verify that the monitoring system (once equipped) is installed, calibrated, operated and maintained in accordance with the manufacturer's recommended procedures and specifications and with good engineering practices for continuous baghouse performance monitoring based on measurements of the relative or absolute PM loadings (outlet).

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

[Authority is also derived from 25 Pa. Code section 127.511]

- (a) The permittee shall conduct periodic monitoring on a calendar quarter basis including a minimum of 2 months between each quarterly performance of the monitoring for NO_x and CO concentrations in the effluent gas vented to atmosphere by Source ID P102 using Department approved testing procedures to verify compliance with the NO_x and CO emission limitations.
- (b) Reserved.
- (c) If a monitoring performance fails to verify compliance, the permittee shall submit written or email notification to the Department no later than 3 days after the performance of the monitoring. The notification shall include the scheduled date of the Source ID P102 combustion process tune-up. Once corrected, the permittee shall notify the Department with a report describing findings and results of the tune-up.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code section 127.511]

The permittee shall maintain monthly records pertaining to the operation of Source ID P102. The records at a minimum shall include the following information:

- (1) Total emission (pounds) of NO₂, CO, PM, PM-10, VOC, SO₂, and HAP from Source ID P102 (including startups, shutdowns, and malfunctions) on a per calendar month and 12-month rolling basis, as well as supporting information for each emission calculation;
- (2) Total natural gas consumed (scf) by Source P102 on a per calendar month and 12-month rolling basis;
- (3) Total hours Source ID P102 operated on a per calendar month and 12-month rolling basis; and
- (4) Copies of each Stack Test/Compliance Performance and Emission Testing Report for ID C102.

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

[Authority is also derived from 25 Pa. Code section 127.511]

[Authority is also derived from 40 CFR Part 64]

The permittee shall maintain daily records for all required monitoring for Source ID P102, (including continuous bag leak detection monitoring and daily visual observation of ID C102 blower exhaust), in accordance with condition #024 of section B, herein. The records shall also include all information as required in 40 CFR section 64.9(b), (relating to General recordkeeping requirements).

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

[Authority is also derived from 25 Pa. Code Section 127.511]

The permittee shall maintain records pertaining to the performed tune-ups of the combustion process/burner for Source ID P102. The records shall include at a minimum the following information:

- (1) Date of each tune-up performance; and
- (2) A detailed account of findings and results of each tune-up, including the final carbon monoxide emission rate and the final nitrogen oxides emission rate, in units of lb/mmBtu, as well as the final excess oxygen percentage

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

[Authority is also derived from 25 Pa. Code section 127.511]

The permittee shall maintain records to demonstrate compliance with the periodic monitoring requirements for Source ID P102 in a manner that the records shall include enough information/data and calculations to verify compliance with the NO_x and CO emission limitations. See section B condition #024 for further details.

018 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]**Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants
Reporting and recordkeeping.**

The permittee shall comply with all of the applicable recordkeeping requirements specified in 40 CFR 60.676.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.****# 019 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 40 CFR Part 64]

(a) The permittee shall submit semi-annual reports to the Department pertaining to required monitoring for Source ID P102 which is listing:

(1) Quantity of excursions and/or exceedances and the duration and probable cause (including unknown cause, if applicable) of each excursion or exceedance, as applicable based on the required monitoring, in the reporting period as well as a description of the corrective actions taken to abate each; and

(2) For the required continuous bag leak detection monitoring for Source ID P102, the number, duration and cause (including unknown cause, if applicable) of each monitor downtime incident, as well as percentage of the time periods within the reporting period for which the monitoring applied but valid monitoring data was not available.

(b) Semi-annual reports shall be submitted to the Department by no later than September 1 for the reporting period from January through June (of the concurrent year) and March 1 for the reporting period from July through December (in the previous year).

020 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 40 CFR Part 64]

The permittee shall promptly notify the Department if the need for improved monitoring for Source ID P102 is discovered, as outlined 40 CFR Section 64.7(e).

021 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

For the required NOx and CO monitoring on Source ID P102, the permittee shall follow the reporting requirements in section B condition #025.

022 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code section 127.511]

(a) The permittee shall submit semi-annual reports to the Department listing:

(1) The total amount of natural gas consumed by Source ID P102 per calendar month;

(2) The total hours of operation of Source ID P102 per calendar month.

(b) Semi-annual reports shall be submitted to the Department by no later than September 1 for the reporting period from January through June (of the concurrent year) and March 1 for the reporting period from July through December (in the previous year).

023 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]**Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants****Reporting and recordkeeping.**

The permittee shall comply with all of the applicable reporting requirements specified in 40 CFR 60.676.

VI. WORK PRACTICE REQUIREMENTS.**# 024 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code section 127.511]

[Authority is also derived from 40 CFR Part 64]

The permittee shall install, calibrate, operate, and maintain the required bag leak detection monitor for Source ID

**SECTION D. Source Level Requirements**

P102/C102 according to the Department-approved monitoring plan. The Department reserves the authority to require submission of a Quality Improvement Plan, as outlined in 40 CFR section 64.8.

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

[Authority is also derived from 40 CFR Part 64]

Daily visual observations conducted during daylight hours whenever Source ID P102 is in operation shall be performed only by operating personnel routinely trained consistent with USEPA reference Method 22 to have knowledge and understanding of the effects of background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor) on the visibility of emissions.

026 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

A sufficient quantity of spare fabric filter bags for C102 shall be kept on hand at all times in order to replace any worn or damaged bags due to deterioration resulting from routine operation.

027 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code section 127.511]

(a) The permittee shall conduct tune-ups of the Source ID P102 combustion process/burner on an annual basis at least, and each performance shall consist of the following activities:

- (1) Inspection and cleaning of the burners and adjustment or replacement of parts, as needed.
- (2) Inspection of the burner flame patterns and adjustment, as needed, to minimize the emission of nitrogen oxides and, to the extent practicable, the emission of carbon monoxide.
- (3) Inspection of the air-to-fuel ratio control system and adjustment, as needed.

Annual in paragraph (a) means no more than 12 months following the month in which completion of the previous tune-up occurred.

VII. ADDITIONAL REQUIREMENTS.**# 028 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

Source P102 consists of a dryer mill (dryer mill #2) equipped with a Maxon Corporation 40M Kinedizer natural gas-fired burner and a hammer mill (hammer mill #2). The rated heat input of the burner shall not exceed 35 million Btu per hour.

029 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

Dryer mill #2 contained in Source P102 shall be equipped with a low nitrogen oxides (low NOx) burner.

030 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The air compressor(s) supplying compressed air to C102 shall be equipped with an air dryer and an oil trap.

**SECTION D. Source Level Requirements****# 031 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

Source P102 shall not operate if C102 is inoperable.

032 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Source ID P102 is subject to the requirements at 40 CFR Part 64, (relating to Compliance Assurance Monitoring). The permittee shall comply with all applicable requirements pertaining to Source ID P102, as specified in 40 CFR Section 64.1 through 64.10.

033 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall implement measures to ensure that the required bag leak detection monitor installation for Source ID P102 conforms with the criteria for proper maintenance and continued operation, as specified in 40 CFR sections 64.7(b) and (c). The site-specific provisions for the required continuous monitor(s) shall be addressed in the Department-approved monitoring plan, as required herein under Source ID P102 subsection III. Monitoring Requirements.

034 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.670]**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants****Applicability and designation of affected facility.**

Source P102 is subject to the federal Standards of Performance for New Stationary Sources, as codified in 40 CFR Part 60 Subpart OOO. The permittee shall comply with all applicable requirements pertaining to Source ID P102, as specified 40 CFR sections 60.670 through 60.676.

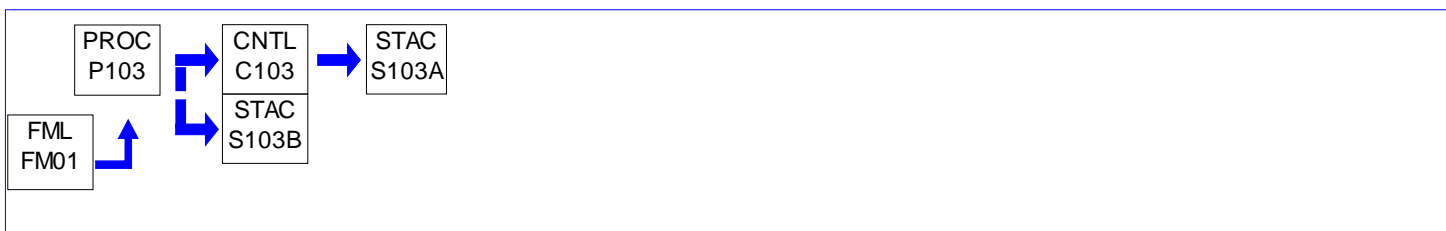
*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

Source ID: P103

Source Name: CALCINING KETTLE 1

Source Capacity/Throughput: 30.000 MMBTU/HR

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

[Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.13 and with 40 CFR 60.732(a)]

(a) The concentration of filterable particulate matter in the exhaust of C103 associated with Source P103 shall not be in excess of 0.009 grains per dry standard cubic foot of effluent gas volume.

(b) The emissions of total particulate matter and PM-10 (including filterable and condensable) in the exhaust of C103 associated with Source P103 shall not exceed 1.35 lb/hr and 5.91 tons in any 12 consecutive month period.

(c) The emissions of PM-2.5 (including filterable and condensable) in the exhaust of C103 associated with Source P103 shall not exceed 1.35 lb/hr and 5.91 tons in any 12 consecutive month period.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

[Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.11]

The concentration of particulate matter and particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM-10, in the burner exhaust of Source P103 shall not be in excess of 0.0076 pound per million Btu of heat input. The emissions of particulate matter and PM-10 shall not exceed 1.0 ton in any twelve consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The nitrogen oxides emissions, expressed as nitrogen dioxide, from the burner exhaust of Source P103 shall not exceed 0.134 pounds per million Btu of heat input and 17.61 tons in any twelve consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The carbon monoxide emissions from the burner exhaust of Source P103 shall not exceed 0.07 pounds per million Btu of heat input and 9.2 tons in any twelve consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

[Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.22]

The sulfur oxides emissions, expressed as sulfur dioxide, from the burner exhaust of Source P103 shall not exceed 0.0006

**SECTION D. Source Level Requirements**

pounds per million Btu of heat input and 0.08 tons in any twelve consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The volatile organic compound emissions from the burner exhaust of Source P103 shall not exceed 0.02 pounds per million Btu of heat input and 2.63 tons in any twelve consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The hazardous air pollutant emissions from the burner exhaust of Source P103 shall not exceed 0.25 tons in any twelve consecutive month period.

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.732]**Subpart UUU - Standards of Performance for Calciners and Dryers in Mineral Industries
Standards for particulate matter.**

The visible emissions from the exhaust of C103 associated with Source P103 shall not exceed ten percent opacity.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) No later than 30 days of issuance of this Title V operating permit (DEP Auth ID 1411501), the permittee shall submit a test protocol for the emissions of filterable particulate matter and PM-10 (including filterable and condensable) on the baghouse exhaust of C103 (ID S103A), while the process is operated at maximum routine operating conditions, to demonstrate compliance with the emission restrictions.

(b) The testing shall be performed using methods and procedures acceptable to the Department in accordance with 25 Pa. Code Chapter 139 no later than 90 days after the test protocol has been approved by the Department

(c) After the testing in paragraph (b) is completed, the permittee shall conduct subsequent testing using method and procedures acceptable to the Department in accordance with 25 Pa. Code Chapter 139 once in every 5-calendar year period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) No later than 30 days of issuance of this Title V operating permit (DEP Auth ID 1411501), the permittee shall submit a test protocol for the emissions of nitrogen oxides (expressed as NO₂), carbon monoxide, and volatile organic compounds (expressed as propane) on the burner exhaust of P103 (ID S103B), while the process is operated at maximum routine operating conditions, to demonstrate compliance with the emission restrictions.

(b) The testing shall be performed using methods and procedures acceptable to the Department in accordance with 25 Pa. Code Chapter 139 no later than 90 days after the test protocol has been approved by the Department

(c) After the testing in paragraph (b) is completed, the permittee shall conduct subsequent testing using method and procedures acceptable to the Department in accordance with 25 Pa. Code Chapter 139 once in every 5-calendar year period.

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

[Authority is also derived from 40 CFR Part 64]

[Authority is also derived from 25 Pa. Code section 127.511]

- (a) At all times when Source ID P103 is operating the permittee shall use a bag leak detection monitoring system in continuous fashion to verify on-going compliance with the BAT standard for PM (filterable). [40 CFR 64.4(e)]
- (b) The design of the monitoring installation, as required above, shall satisfy the applicable criteria under 40 CFR section 64.3 and the other applicable requirements, below. In addition, the permittee shall submit a site-specific monitoring plan that provides manufacturer's recommended procedures and specifications and good engineering practices for installing, testing and performing any other appropriate activities prior to use of the monitoring system, as well as a test protocol for the initial performance evaluation.
- (c) The required bag leak detection monitoring plan for Source ID C103 shall at a minimum address the following:
- (1) Installation of the sensors or other interface at a measurement location relative to the affected process unit such that the measurement is representative of performance of the ID C103 fabric collector. In addition, bag leak detection sensors shall be installed in positions that will be representative of the relative or absolute PM loadings at locations downstream relative to the ID C103 fabric collector filters or baghouse, to identify and isolate filter bag issues within the unit;
- (2) The performance and equipment specifications for the bag leak detection monitoring system, as well as the data collection and reduction devices. Specifically, the required bag leak detection installation shall be certified by the manufacturer to be capable of detecting PM emissions at concentrations consistent with good engineering practices for Source ID P103/C103. In addition, the monitoring system shall alert plant operating personnel when an increase in PM emissions over a preset level indicative of compliance is detected and shall be equipped with device(s) to record continuously the output signals from the sensors to reduce the collected data for the reporting of exceedances (and excursions, if applicable);
- (3) Initial performance evaluation procedures, and acceptance criteria for the initial performance evaluation, consistent with US EPA methodology/guidance. In addition, any PM emission testing required for the initial performance evaluation shall use methods and procedures consistent with 25 Pa. Code Chapter 139; and
- (4) Ongoing operation and maintenance procedures; ongoing data quality assurance procedures and ongoing recordkeeping and reporting procedures for the required bag leak detection installation, to verify that the monitoring system (once equipped) is installed, calibrated, operated and maintained in accordance with the manufacturer's recommended procedures and specifications and with good engineering practices for continuous baghouse performance monitoring based on measurements of the relative or absolute PM loadings (outlet).

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

[Additional authority for this permit condition is derived from 40 CFR Section 64.6 and 25 Pa. Code Section 127.511]

- (a) While Source ID P103 is in operation, the permittee shall conduct during daylight hours daily inspections of ID C103 that consist of at least, a visual observation of the ID C103 fabric collector stack (ID S103A) for a period of 1 minute to detect for the presence of visible emission. An excursion is defined as an inspection that detected visible emission from ID S103A.
- (b) The observations required above in paragraph (a) of this permit condition shall be conducted, as follows:
- (1) Once in any calendar day at least, unless the source is not in operation during daylight hours;
- (2) At location(s) at least 15 feet but not more than 1320 feet from the fabric collector with the sun generally at the observers back and where contrasting background(s) are present to the extent controllable by the observer; and
- (3) Only by personnel trained to have knowledge and understanding of the effects of background contrast, ambient lighting, and where the personnel should stand to conduct the observations.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall maintain accurate and comprehensive records of the annual tune-ups for each burner incorporated in Source P103 which shall, at a minimum, include the following information:

- (1) the date of the annual tune-up
- (2) a detailed account of the tune-up findings and results
- (3) the identity of those performing the tune-up
- (4) the final carbon monoxide and nitrogen oxides emission rates in units of ppm and lb/mmBtu and the final excess oxygen rate

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.511]

The permittee shall generate and keep monthly records for Source ID P103 of the information, as follows:

- (1) The emissions of NO_x, CO, PM, PM-10, VOCs, SO_x, and HAP from Source ID P103, including emissions from startups, shutdowns, and malfunctions, on a monthly and 12-month rolling basis, as well as the supporting information and calculations;
- (2) The amount of natural gas consumed in Source P103 and its hours of operation, on a monthly basis; and
- (3) Stack test reports.

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

[Authority is also derived from 25 Pa. Code section 127.511]

[Authority is also derived from 40 CFR Part 64]

The permittee shall maintain daily records for all required monitoring for Source ID P103, (including continuous bag leak detection monitoring and daily visual observation of ID C103 blower exhaust), in accordance with condition #024 of section B, herein. The records shall also include all information as required in 40 CFR section 64.9(b), (relating to General recordkeeping requirements).

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

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall implement measures and keep records and other documentation to demonstrate that the required bag leak detection monitor installation for Source ID P103 conforms with the criteria for proper maintenance and continued operation, as specified in 40 CFR sections 64.7(b) and (c). The site-specific provisions for the required continuous monitor(s) shall be addressed in the Department-approved monitoring plan, as required herein under Source ID P103 subsection III. Monitoring Requirements.

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

(a) The permittee shall submit semi-annual reports to the Department listing the following for Source P103:

- (1) the date of any tune-ups performed during the reporting period
- (2) a detailed account of the findings and results of any tune-ups performed during the reporting period

**SECTION D. Source Level Requirements**

(3) the identity of those performing any tune-ups during the reporting period

(4) the final carbon monoxide and nitrogen oxides emission rates and the final excess oxygen rate determined at the conclusion of each tune-up performed during the reporting period

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 of each year for the immediately-preceding January through June six month period and March 1 of each year for the immediately-preceding July through December six month period.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall promptly notify the Department if the need for improved monitoring is discovered, as outlined 40 CFR Section 64.7(e).

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority for this condition is also derived from 25 Pa. Code Sections 127.511 and 40 CFR Section 64.9]

(a) The permittee shall submit semi-annual reports to the Department listing:

(1) The number, duration and cause (including unknown cause, if applicable) of excursions (or exceedances) and the corrective actions taken;

(2) For the required continuous bag leak detection monitoring for Source ID P103, the number, duration and cause (including unknown cause, if applicable) of each monitor downtime incident, as well as percentage of the time periods within the reporting period for which the monitoring applied but valid monitoring data was not available; and

(3) The amount of natural gas consumed in Source ID P103 and its hours of operation, on a calendar month basis.

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 (for the reporting period from January through June in the concurrent year) and March 1 (for the reporting period from July through December in the previous year).

VI. WORK PRACTICE REQUIREMENTS.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall conduct performance evaluations of the required bag leak detection installation as per the manufacturer specifications.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

A sufficient quantity of spare fabric bags for C103 shall be kept on hand at all times in order to immediately replace any worn or damaged bags due to deterioration resulting from routine operation of Source P103 and C103.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) Source P103 shall be operated in accordance with good combustion and maintenance practices including the performance of an annual adjustment or tune-up of the burners which shall include, at a minimum, the following:

(1) an inspection and cleaning of the burner and adjustment or replacement of parts, as needed.

(2) an inspection of the burner flame pattern and adjustment, as needed, to minimize the emission of nitrogen oxides and, to the extent practicable, the emission of carbon monoxide.

**SECTION D. Source Level Requirements**

(3) an inspection of the air-to-fuel ratio control system and adjustment, as needed.

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority is also derived from 25 Pa. Code section 127.511]

[Authority is also derived from 40 CFR Part 64]

The permittee shall install, calibrate, operate, and maintain the required bag leak detection monitor for Source ID P103/C103 according to the Department-approved monitoring plan. The Department reserves the authority to require submission of a Quality Improvement Plan, as outlined in 40 CFR section 64.8.

VII. ADDITIONAL REQUIREMENTS.

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P103 is a refractoryless calcining kettle (Calcining Kettle #1) equipped with six Maxon Corporation 8" HC Tube-O-Therm indirect-fired natural gas-fired burners. The combined heat input of the burners incorporated in Source P103 shall not exceed 30 million Btu per hour.

025 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emissions of particulate matter and PM-10 from Source P103 shall be controlled by a fabric collector (C103) which shall be insulated and equipped with temperature controls. This condition does not apply to the particulate matter and PM-10 emissions from the burner exhaust of Source P103.

026 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) supplying compressed air to C103 shall be equipped with an air dryer and an oil trap.

027 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P103 shall not operate if C103 is inoperable.

028 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 40 CFR Section 64.6]

The permittee shall fulfill the other obligations specified in 40 CFR Sections 64.7 through 64.9. Additionally, the provisions specified under 40 CFR Section 64.8 apply to Source ID P104 if implementation of a quality improvement plan (QIP) is required. Pursuant to 40 CFR Section 64.8(a), the implementation of a QIP is required if six (6) excursions occur in a semi-annual reporting period.

029 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P103 is subject to the requirement at 40 CFR Part 64, (relating to Compliance Assurance Monitoring). The permittee shall comply with all applicable provisions/requirements pertaining to Source ID P104, as specified in 40 CFR

**SECTION D. Source Level Requirements**

Section 64.1 through 64.10.

030 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.730]

Subpart UUU - Standards of Performance for Calciners and Dryers in Mineral Industries

Applicability and designation of affected facility.

Source P103 is subject to Subpart UUU of the federal Standards of Performance for New Stationary Sources, 40 CFR 60.730 - 60.737, and shall comply with all applicable requirements contained therein.

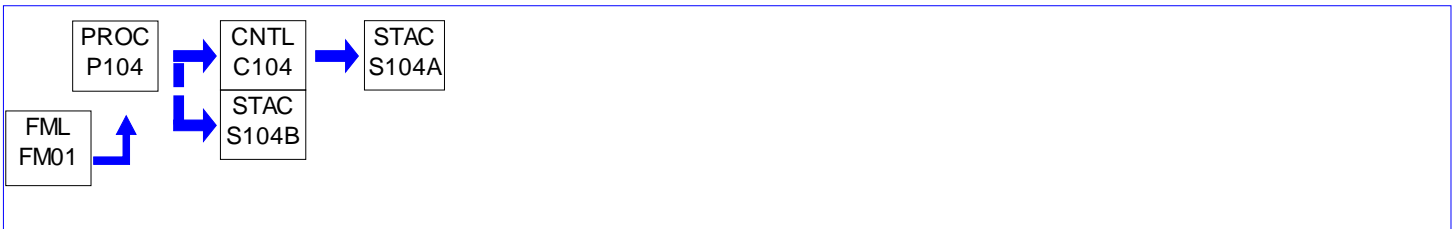
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P104

Source Name: CALCINING KETTLE 2

Source Capacity/Throughput: 30.000 MMBTU/HR

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

[Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.13 and with 40 CFR 60.732(a)]

(a) The concentration of filterable particulate matter in the exhaust of C104 associated with Source P104 shall not be in excess of 0.009 grains per dry standard cubic foot of effluent gas volume.

(b) The emissions of total particulate matter and PM-10 (including filterable and condensable) in the exhaust of C104 associated with Source P104 shall not exceed 1.35 lb/hr and 5.91 tons in any 12 consecutive month period.

(c) The emissions of PM-2.5 (including filterable and condensable) in the exhaust of C104 associated with Source P104 shall not exceed 1.35 lb/hr and 5.91 tons in any 12 consecutive month period.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

[Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.11]

The concentration of particulate matter and particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM-10, in the burner exhaust of Source P104 shall not be in excess of 0.0076 pound per million Btu of heat input. The emissions of particulate matter and PM-10 shall not exceed 1.0 ton in any twelve consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The nitrogen oxides emissions, expressed as nitrogen dioxide, from the burner exhaust of Source P104 shall not exceed 0.134 pounds per million Btu of heat input and 17.61 tons in any twelve consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The carbon monoxide emissions from the burner exhaust of Source P104 shall not exceed 0.07 pounds per million Btu of heat input and 9.2 tons in any twelve consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

[Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.22]

The sulfur oxides emissions, expressed as sulfur dioxide, from the burner exhaust of Source P104 shall not exceed 0.0006

**SECTION D. Source Level Requirements**

pounds per million Btu of heat input and 0.08 tons in any twelve consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The volatile organic compound emissions from the burner exhaust of Source P104 shall not exceed 0.02 pounds per million Btu of heat input and 2.63 tons in any twelve consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The hazardous air pollutant emissions from the burner exhaust of Source P104 shall not exceed 0.25 tons in any twelve consecutive month period.

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.732]**Subpart UUU - Standards of Performance for Calciners and Dryers in Mineral Industries
Standards for particulate matter.**

The visible emissions from the exhaust of C104 associated with Source P104 shall not exceed ten percent opacity.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) No later than 30 days of issuance of this Title V operating permit (DEP Auth ID 1411501), the permittee shall submit a test protocol for the emissions of nitrogen oxides (expressed as NO₂), carbon monoxide, and volatile organic compounds (expressed as propane) on the burner exhaust of P104 (ID S104B), while the process is operated at maximum routine operating conditions, to demonstrate compliance with the emission restrictions.

(b) The testing shall be performed using methods and procedures acceptable to the Department in accordance with 25 Pa. Code Chapter 139 no later than 90 days after the test protocol has been approved by the Department

(c) After the testing in paragraph (b) is completed, the permittee shall conduct subsequent testing using method and procedures acceptable to the Department in accordance with 25 Pa. Code Chapter 139 once in every 5-calendar year period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) No later than 30 days of issuance of this Title V operating permit (DEP Auth ID 1411501), the permittee shall submit a test protocol for the emissions of filterable particulate matter and PM-10 (including filterable and condensable) on the baghouse exhaust of C104 (ID S104A), while the process is operated at maximum routine operating conditions, to demonstrate compliance with the emission restrictions.

(b) The testing shall be performed using methods and procedures acceptable to the Department in accordance with 25 Pa. Code Chapter 139 no later than 90 days after the test protocol has been approved by the Department

(c) After the testing in paragraph (b) is completed, the permittee shall conduct subsequent testing using method and procedures acceptable to the Department in accordance with 25 Pa. Code Chapter 139 once in every 5-calendar year period.

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

[Additional authority for this permit condition is derived from 40 CFR Section 64.6 and 25 Pa. Code Section 127.511]

(a) While Source ID P104 is in operation, the permittee shall conduct during daylight hours daily inspections of ID C104 that consist of at least, a visual observation of the ID C104 fabric collector stack (ID S104A) for a period of 1 minute to detect for the presence of visible emission. An excursion is defined as an inspection that detected visible emission from ID S104A.

(b) The observations required above in paragraph (a) of this permit condition shall be conducted, as follows:

(1) Once in any calendar day at least, unless the source is not in operation during daylight hours;

(2) At location(s) at least 15 feet but not more than 1320 feet from the fabric collector with the sun generally at the observers back and where contrasting background(s) are present to the extent controllable by the observer; and

(3) Only by personnel trained to have knowledge and understanding of the effects of background contrast, ambient lighting, and where the personnel should stand to conduct the observations.

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

[Authority is also derived from 40 CFR Part 64]

[Authority is also derived from 25 Pa. Code section 127.511]

(a) At all times when Source ID P104 is operating the permittee shall use a bag leak detection monitoring system in continuous fashion to verify on-going compliance with the BAT standard for PM (filterable). [40 CFR 64.4(e)]

(b) The design of the monitoring installation, as required above, shall satisfy the applicable criteria under 40 CFR section 64.3 and the other applicable requirements, below. In addition, the permittee shall submit a site-specific monitoring plan that provides manufacturer's recommended procedures and specifications and good engineering practices for installing, testing and performing any other appropriate activities prior to use of the monitoring system, as well as a test protocol for the initial performance evaluation.

(c) The required bag leak detection monitoring plan for Source ID C104 shall at a minimum address the following:

(1) Installation of the sensors or other interface at a measurement location relative to the affected process unit such that the measurement is representative of performance of the ID C104 fabric collector. In addition, bag leak detection sensors shall be installed in positions that will be representative of the relative or absolute PM loadings at locations downstream relative to the ID C104 fabric collector filters or baghouse, to identify and isolate filter bag issues within the unit;

(2) The performance and equipment specifications for the bag leak detection monitoring system, as well as the data collection and reduction devices. Specifically, the required bag leak detection installation shall be certified by the manufacturer to be capable of detecting PM emissions at concentrations consistent with good engineering practices for Source ID P104/C104. In addition, the monitoring system shall alert plant operating personnel when an increase in PM emissions over a preset level indicative of compliance is detected and shall be equipped with device(s) to record continuously the output signals from the sensors to reduce the collected data for the reporting of exceedances (and excursions, if applicable);

(3) Initial performance evaluation procedures, and acceptance criteria for the initial performance evaluation, consistent with US EPA methodology/guidance. In addition, any PM emission testing required for the initial performance evaluation shall use methods and procedures consistent with 25 Pa. Code Chapter 139; and

(4) Ongoing operation and maintenance procedures; ongoing data quality assurance procedures and ongoing recordkeeping and reporting procedures for the required bag leak detection installation, to verify that the monitoring system (once equipped) is installed, calibrated, operated and maintained in accordance with the manufacturer's recommended procedures and specifications and with good engineering practices for continuous baghouse performance monitoring based on measurements of the relative or absolute PM loadings (outlet).

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall maintain accurate and comprehensive records of the annual tune-ups for each burner incorporated in Source P104 which shall, at a minimum, include the following information:

- (1) the date of the annual tune-up
- (2) a detailed account of the tune-up findings and results
- (3) the identity of those performing the tune-up
- (4) the final carbon monoxide and nitrogen oxides emission rates in units of ppm and lb/mmBtu and the final excess oxygen rate

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.511]

The permittee shall generate and keep monthly records for Source ID P104 of the information, as follows:

- (1) The emissions of NO_x, CO, PM, PM-10, VOCs, SO_x, and HAP from Source ID P104, including emissions from startups, shutdowns, and malfunctions, on a monthly and 12-month rolling basis, as well as the supporting information and calculations;
- (2) The amount of natural gas consumed in Source P104 and its hours of operation, on a monthly basis; and
- (3) Stack test reports.

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

[Authority is also derived from 25 Pa. Code section 127.511]

[Authority is also derived from 40 CFR Part 64]

The permittee shall maintain daily records for all required monitoring for Source ID P104, (including continuous bag leak detection monitoring and daily visual observation of ID C104 blower exhaust), in accordance with condition #024 of section B, herein. The records shall also include all information as required in 40 CFR section 64.9(b), (relating to General recordkeeping requirements).

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

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall implement measures and keep records and other documentation to demonstrate that the required bag leak detection monitor installation for Source ID P104 conforms with the criteria for proper maintenance and continued operation, as specified in 40 CFR sections 64.7(b) and (c). The site-specific provisions for the required continuous monitor(s) shall be addressed in the Department-approved monitoring plan, as required herein under Source ID P104 subsection III. Monitoring Requirements.

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.511 and 40 CFR Section 64.9]

(a) The permittee shall submit semi-annual reports to the Department listing:

- (1) The number, duration and cause (including unknown cause, if applicable) of excursions (or exceedances) and the corrective actions taken;

**SECTION D. Source Level Requirements**

(2) For the required continuous bag leak detection monitoring for Source ID P104, the number, duration and cause (including unknown cause, if applicable) of each monitor downtime incident, as well as percentage of the time periods within the reporting period for which the monitoring applied but valid monitoring data was not available; and

(3) The amount of natural gas consumed in Source ID P104 and its hours of operation, on a calendar month basis.

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 (for the reporting period from January through June in the concurrent year) and March 1 (for the reporting period from July through December in the previous year).

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

(a) The permittee shall submit semi-annual reports to the Department listing the following for Source P104:

(1) the date of any tune-ups performed during the reporting period

(2) a detailed account of the findings and results of any tune-ups performed during the reporting period

(3) the identity of those performing any tune-ups during the reporting period

(4) the final carbon monoxide and nitrogen oxides emission rates and the final excess oxygen rate determined at the conclusion of each tune-up performed during the reporting period

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 of each year for the immediately-preceding January through June six month period and March 1 of each year for the immediately-preceding July through December six month period.

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

The permittee shall promptly notify the Department if the need for improved monitoring is discovered, as outlined 40 CFR Section 64.7(e).

VI. WORK PRACTICE REQUIREMENTS.**# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

A sufficient quantity of spare fabric bags for C104 shall be kept on hand at all times in order to immediately replace any worn or damaged bags due to deterioration resulting from routine operation of Source P104 and C104.

021 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) Source P104 shall be operated in accordance with good combustion and maintenance practices including the performance of an annual adjustment or tune-up of the burners which shall include, at a minimum, the following:

(1) an inspection and cleaning of the burner and adjustment or replacement of parts, as needed.

(2) an inspection of the burner flame pattern and adjustment, as needed, to minimize the emission of nitrogen oxides and, to the extent practicable, the emission of carbon monoxide.

(3) an inspection of the air-to-fuel ratio control system and adjustment, as needed.

**SECTION D. Source Level Requirements****# 022 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall conduct performance evaluations of the required bag leak detection installation as per the manufacturer specifications.

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

[Authority is also derived from 25 Pa. Code section 127.511]

[Authority is also derived from 40 CFR Part 64]

The permittee shall install, calibrate, operate, and maintain the required bag leak detection monitor for Source ID P104/C104 according to the Department-approved monitoring plan. The Department reserves the authority to require submission of a Quality Improvement Plan, as outlined in 40 CFR section 64.8.

VII. ADDITIONAL REQUIREMENTS.**# 024 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P104 is a refractoryless calcining kettle (Calcining Kettle #2) equipped with six Maxon Corporation 8" HC Tube-O-Therm indirect-fired natural gas-fired burners. The combined heat input of the burners incorporated in Source P104 shall not exceed 30 million Btu per hour.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emissions of particulate matter and PM-10 from Source P104 shall be controlled by a fabric collector (C104) which shall be insulated and equipped with temperature controls. This condition does not apply to the particulate matter and PM-10 emissions from the burner exhaust of Source P104.

026 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) supplying compressed air to C104 shall be equipped with an air dryer and an oil trap.

027 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P104 shall not operate if C104 is inoperable.

028 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 40 CFR Section 64.6]

The permittee shall fulfill the other obligations specified in 40 CFR Sections 64.7 through 64.9. Additionally, the provisions specified under 40 CFR Section 64.8 apply to Source ID P104 if implementation of a quality improvement plan (QIP) is required. Pursuant to 40 CFR Section 64.8(a), the implementation of a QIP is required if six (6) excursions occur in a semi-annual reporting period.

029 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Source ID P104 is subject to the requirement at 40 CFR Part 64, (relating to Compliance Assurance Monitoring). The

**SECTION D. Source Level Requirements**

permittee shall comply with all applicable provisions/requirements pertaining to Source ID P104, as specified in 40 CFR Section 64.1 through 64.10.

030 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.730]**Subpart UUU - Standards of Performance for Calciners and Dryers in Mineral Industries****Applicability and designation of affected facility.**

Source P104 is subject to Subpart UUU of the federal Standards of Performance for New Stationary Sources, 40 CFR 60.730 - 60.737, and shall comply with all applicable requirements contained therein.

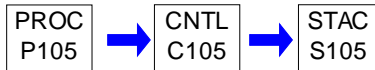
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P105

Source Name: DESTREAMER 1

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

[Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.13]

The concentration of particulate matter and particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM-10, in the exhaust of C105 associated with Source P105 shall not be in excess of 0.009 grains per dry standard cubic foot of effluent gas volume. The emissions of particulate matter and PM-10 shall not exceed 0.27 ton in any twelve consecutive month period.

II. TESTING REQUIREMENTS.

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

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall continuously monitor the differential pressure across ID C105 to verify it is within 1.69 through 4.0 inches of water. An alarm shall be triggered immediately if the differential pressure is outside any of the above limits (during operation) which is defined as an excursion, herein. The accuracy of the differential pressure measurement devices shall be $\pm 0.5\%$ of the span, at least.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) While Source ID P105 is in operation, the permittee shall conduct during daylight hours daily inspections of ID C105 that consist of at least, a visual observation of the ID C105 fabric collector stack (ID S105) for a period of 1 minute to detect for the presence of visible emission. An excursion is defined as an inspection that detected visible emission from ID S105.

(b) The observations required above in paragraph (a) of this permit condition shall be conducted, as follows:

(1) Once in any calendar day at least, unless the source is not in operation during daylight hours;

(2) At location(s) at least 15 feet but not more than 1320 feet from the fabric collector with the sun generally at the observers back and where contrasting background(s) are present to the extent controllable by the observer; and

(3) Only by personnel trained to have knowledge and understanding of the effects of background contrast, ambient lighting, and where the personnel should stand to conduct the observations.

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

[Authority for this permit condition is also derived from 25 Pa. Code Section 127.511]

The permittee shall generate and keep daily records of the required monitoring data and information including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements, to verify compliance with the differential pressure and visible emission parameters.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

A sufficient quantity of spare fabric bags for C105 shall be kept on hand at all times in order to immediately replace any worn or damaged bags due to deterioration resulting from routine operation of Source P105 and C105.

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

Source P105 is a desteamer (desteamer #1).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emissions of particulate matter and PM-10 from Source P105 shall be controlled by a fabric collector (C105) which shall be insulated.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) supplying the compressed air to C105 shall be equipped with an air dryer and an oil trap.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P105 shall not operate if C105 is inoperable.

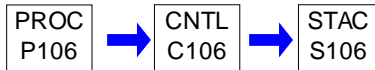
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P106

Source Name: DESTREAMER 2

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

[Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.13]

The concentration of particulate matter and particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM-10, in the exhaust of C106 associated with Source P106 shall not be in excess of 0.009 grains per dry standard cubic foot of effluent gas volume. The emissions of particulate matter and PM-10 shall not exceed 0.27 tons in any twelve consecutive month period.

II. TESTING REQUIREMENTS.

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

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall continuously monitor the differential pressure across ID C106 to verify it is within 1.9 through 4.0 inches of water. An alarm shall be triggered immediately if the differential pressure is outside any of the above limits (during operation) which is defined as an excursion, herein. The accuracy of the differential pressure measurement devices shall be $\pm 0.5\%$ of the span, at least.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) While Source ID P106 is in operation, the permittee shall conduct during daylight hours daily inspections of ID C106 that consist of at least, a visual observation of the ID C106 fabric collector stack (ID S106) for a period of 1 minute to detect for the presence of visible emission. An excursion is defined as an inspection that detected visible emission from ID S106.

(b) The observations required above in paragraph (a) of this permit condition shall be conducted, as follows:

(1) Once in any calendar day at least, unless the source is not in operation during daylight hours;

(2) At location(s) at least 15 feet but not more than 1320 feet from the fabric collector with the sun generally at the observers back and where contrasting background(s) are present to the extent controllable by the observer; and

(3) Only by personnel trained to have knowledge and understanding of the effects of background contrast, ambient lighting, and where the personnel should stand to conduct the observations.

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

[Authority for this permit condition is also derived from 25 Pa. Code Section 127.511]

The permittee shall generate and keep daily records of the required monitoring data and information including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements, to verify compliance with the differential pressure and visible emission parameters.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

A sufficient quantity of spare fabric bags for C106 shall be kept on hand at all times in order to immediately replace any worn or damaged bags due to deterioration resulting from routine operation of Source P106 and C106.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emissions of particulate matter and PM-10 from Source P106 shall be controlled by a fabric collector (C106) which shall be insulated.

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

Source P106 is a desteamer (desteamer #2).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P106 shall not operate if C106 is inoperable.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) supplying the compressed air to C106 shall be equipped with an air dryer and an oil trap.

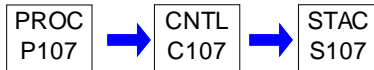
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P107

Source Name: KETTLE FEED BIN 1

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]
 [Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.13 and with 40 CFR 60.672(a)(1)]

The concentration of particulate matter and particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM-10, in the exhaust of C107 associated with Source P107 shall not be in excess of 0.009 grains per dry standard cubic foot of effluent gas volume. The emissions of particulate matter and PM-10 shall not exceed 2.45 tons in any twelve consecutive month period.

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.672]**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants
Standard for particulate matter.**

The visible emissions from the exhaust of C107 associated with Source P107 shall not exceed seven percent opacity.

II. TESTING REQUIREMENTS.

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

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12, and 40 CFR Section 64.6]

The permittee shall continuously monitor the differential pressure across ID C107 to verify it is within 1.67 through 4.0 inches of water. An alarm shall be triggered immediately if the differential pressure is outside any of the above limits (during operation) which is defined as an excursion, herein. The accuracy of the differential pressure measurement devices shall be $\pm 0.5\%$ of the span, at least.

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

[Additional authority for this permit condition is derived from 40 CFR Section 64.6 and 25 Pa. Code Section 127.511]

(a) While Source ID P107 is in operation, the permittee shall conduct during daylight hours daily inspections of ID C107 that consist of at least, a visual observation of the ID C107 fabric collector stack (ID S107) for a period of 1 minute to detect for the presence of visible emission. An excursion is defined as an inspection that detected visible emission from ID S107.

(b) The observations required above in paragraph (a) of this permit condition shall be conducted, as follows:

(1) Once in any calendar day at least, unless the source is not in operation during daylight hours;

(2) At location(s) at least 15 feet but not more than 1320 feet from the fabric collector with the sun generally at the observers back and where contrasting background(s) are present to the extent controllable by the observer; and

**SECTION D. Source Level Requirements**

(3) Only by personnel trained to have knowledge and understanding of the effects of background contrast, ambient lighting, and where the personnel should stand to conduct the observations.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall generate and keep daily records of the required monitoring data and information including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements, to verify compliance with the differential pressure and visible emission parameters. The records shall also include the information as required in 40 CFR Section 64.9(b), (relating to General Recordkeeping Requirements).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall generate and keep records that verify the differential pressure gauge for ID C107 is properly maintained and continually operated in accordance with 40 CFR Sections 64.7(b) and (c), and the visible emission observations for S107 are conducted by trained personnel.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]

Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants**Reporting and recordkeeping.**

The permittee shall comply with all of the applicable recordkeeping requirements specified in 40 CFR 60.676.

V. REPORTING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall promptly notify the Department if the need for improved monitoring is discovered, as outlined 40 CFR Section 64.7(e).

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority for this condition is also derived from 25 Pa. Code Sections 127.511 and 40 CFR Section 64.9]

(a) The permittee shall submit semi-annual reports to the Department listing:

(1) The number, duration and cause (including unknown cause, if applicable) of excursions and the corrective actions taken; and

(2) For required differential pressure monitoring, the number, duration and cause (including unknown cause, if applicable) of all monitor downtime incidents.

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 (for the reporting period from January through June in the concurrent year) and March 1 (for the reporting period from July through December in the previous year).

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]

Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants**Reporting and recordkeeping.**

The permittee shall comply with all of the applicable reporting requirements specified in 40 CFR 60.676.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

A sufficient quantity of spare cartridges for C107 shall be kept on hand at all times in order to immediately replace any worn or damaged cartridges due to deterioration resulting from routine operation of Source P107 and C107.

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

Source P107 is a kettle feed bin (kettle feed bin #1).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emissions of particulate matter and PM-10 from Source P107 shall be controlled by a cartridge collector (C107) which shall be insulated.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) supplying compressed air to C107 shall be equipped with an air dryer and an oil trap.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P107 shall not operate if C107 is inoperable.

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

[Additional authority for this permit condition is derived from 40 CFR Section 64.6]

The permittee shall fulfill the other obligations specified in 40 CFR Sections 64.7 through 64.9. Additionally, the provisions specified under 40 CFR Section 64.8 apply to Source ID P107 if implementation of a quality improvement plan (QIP) is required. Pursuant to 40 CFR Section 64.8(a), the implementation of a QIP is required if six (6) excursions occur in a semi-annual reporting period.

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

Source ID P107 is subject to the requirement at 40 CFR Part 64, (relating to Compliance Assurance Monitoring). The permittee shall comply with all applicable provisions/requirements pertaining to Source ID P107, as specified in 40 CFR Section 64.1 through 64.10.

018 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.670]**Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants****Applicability and designation of affected facility.**

Source P107 is subject to Subpart 000 of the federal Standards of Performance for New Stationary Sources, 40 CFR 60.670-60.676, and shall comply with all applicable requirements contained therein except that particulate matter and visible emissions (opacity) testing need not be performed unless specifically requested by the Department of Environmental Protection.

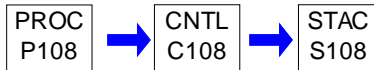
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P108

Source Name: KETTLE FEED BIN 2

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]
 [Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.13 and with 40 CFR 60.672(a)(1)]

The concentration of particulate matter and particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM-10, in the exhaust of C108 associated with Source P108 shall not be in excess of 0.009 grains per dry standard cubic foot of effluent gas volume. The emissions of particulate matter and PM-10 shall not exceed 2.45 tons in any twelve consecutive month period.

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.672]**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants
Standard for particulate matter.**

The visible emissions from the exhaust of C108 associated with Source P108 shall not exceed seven percent opacity.

II. TESTING REQUIREMENTS.

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

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12, and 40 CFR Section 64.6]

The permittee shall continuously monitor the differential pressure across ID C108 to verify it is within 1.91 through 4.0 inches of water. An alarm shall be triggered immediately if the differential pressure is outside any of the above limits (during operation) which is defined as an excursion, herein. The accuracy of the differential pressure measurement devices shall be $\pm 0.5\%$ of the span, at least.

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

[Additional authority for this permit condition is derived from 40 CFR Section 64.6 and 25 Pa. Code Section 127.511]

(a) While Source ID P108 is in operation, the permittee shall conduct during daylight hours daily inspections of ID C108 that consist of at least, a visual observation of the ID C108 fabric collector stack (ID S108) for a period of 1 minute to detect for the presence of visible emission. An excursion is defined as an inspection that detected visible emission from ID S108.

(b) The observations required above in paragraph (a) of this permit condition shall be conducted, as follows:

(1) Once in any calendar day at least, unless the source is not in operation during daylight hours;

(2) At location(s) at least 15 feet but not more than 1320 feet from the fabric collector with the sun generally at the observers back and where contrasting background(s) are present to the extent controllable by the observer; and

**SECTION D. Source Level Requirements**

(3) Only by personnel trained to have knowledge and understanding of the effects of background contrast, ambient lighting, and where the personnel should stand to conduct the observations.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall generate and keep daily records of the required monitoring data and information including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements, to verify compliance with the differential pressure and visible emission parameters. The records shall also include the information as required in 40 CFR Section 64.9(b), (relating to General Recordkeeping Requirements).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall generate and keep records that verify the differential pressure gauge for ID C108 is properly maintained and continually operated in accordance with 40 CFR Sections 64.7(b) and (c), and the visible emission observations for S108 are conducted by trained personnel.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]

**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants
Reporting and recordkeeping.**

The permittee shall comply with all of the applicable recordkeeping requirements specified in 40 CFR 60.676.

V. REPORTING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall promptly notify the Department if the need for improved monitoring is discovered, as outlined 40 CFR Section 64.7(e).

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority for this condition is also derived from 25 Pa. Code Sections 127.511 and 40 CFR Section 64.9]

(a) The permittee shall submit semi-annual reports to the Department listing:

(1) The number, duration and cause (including unknown cause, if applicable) of excursions and the corrective actions taken; and

(2) For required differential pressure monitoring, the number, duration and cause (including unknown cause, if applicable) of all monitor downtime incidents.

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 (for the reporting period from January through June in the concurrent year) and March 1 (for the reporting period from July through December in the previous year).

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]

**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants
Reporting and recordkeeping.**

The permittee shall comply with all of the applicable reporting requirements specified in 40 CFR 60.676.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

A sufficient quantity of spare cartridges for C108 shall be kept on hand at all times in order to immediately replace any worn or damaged cartridges due to deterioration resulting from routine operation of Source P108 and C108.

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

Source P108 is a kettle feed bin (kettle feed bin #2).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emissions of particulate matter and PM-10 from Source P108 shall be controlled by a collector (C108) which shall be insulated.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) supplying compressed air to C108 shall be equipped with an air dryer and an oil trap.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P108 shall not operate if C108 is inoperable.

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

Source ID P108 is subject to the requirement at 40 CFR Part 64, (relating to Compliance Assurance Monitoring). The permittee shall comply with all applicable provisions/requirements pertaining to Source ID P108, as specified in 40 CFR Section 64.1 through 64.10.

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

[Additional authority for this permit condition is derived from 40 CFR Section 64.6]

The permittee shall fulfill the other obligations specified in 40 CFR Sections 64.7 through 64.9. Additionally, the provisions specified under 40 CFR Section 64.8 apply to Source ID P108 if implementation of a quality improvement plan (QIP) is required. Pursuant to 40 CFR Section 64.8(a), the implementation of a QIP is required if six (6) excursions occur in a semi-annual reporting period.

018 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.670]**Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants****Applicability and designation of affected facility.**

Source P108 is subject to Subpart 000 of the federal Standards of Performance for New Stationary Sources, 40 CFR 60.670-60.676, and shall comply with all applicable requirements contained therein except that particulate matter and visible emissions (opacity) testing need not be performed unless specifically requested by the Department of Environmental Protection.



SECTION D. Source Level Requirements

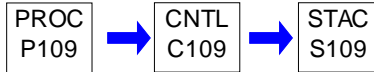
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P109

Source Name: STUCCO STORAGE BIN

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

[Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.13]

The concentration of particulate matter and particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM-10, in the exhaust of C109 associated with Source P109 shall not be in excess of 0.009 grains per dry standard cubic foot of effluent gas volume. The emissions of particulate matter and PM-10 shall not exceed 2.72 tons in any twelve consecutive month period.

II. TESTING REQUIREMENTS.

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

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12, and 40 CFR Section 64.6]

The permittee shall continuously monitor the differential pressure across ID C109 to verify it is within 1.45 through 4.0 inches of water. An alarm shall be triggered immediately if the differential pressure is outside any of the above limits (during operation) which is defined as an excursion, herein. The accuracy of the differential pressure measurement devices shall be $\pm 0.5\%$ of the span, at least.

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

[Additional authority for this permit condition is derived from 40 CFR Section 64.6 and 25 Pa. Code Section 127.511]

(a) While Source ID P109 is in operation, the permittee shall conduct during daylight hours daily inspections of ID C109 that consist of at least, a visual observation of the ID C109 fabric collector stack (ID S109) for a period of 1 minute to detect for the presence of visible emission. An excursion is defined as an inspection that detected visible emission from ID S109.

(b) The observations required above in paragraph (a) of this permit condition shall be conducted, as follows:

(1) Once in any calendar day at least, unless the source is not in operation during daylight hours;

(2) At location(s) at least 15 feet but not more than 1320 feet from the fabric collector with the sun generally at the observers back and where contrasting background(s) are present to the extent controllable by the observer; and

(3) Only by personnel trained to have knowledge and understanding of the effects of background contrast, ambient lighting, and where the personnel should stand to conduct the observations.

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

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall generate and keep daily records of the required monitoring data and information including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements, to verify compliance with the differential pressure and visible emission parameters. The records shall also include the information as required in 40 CFR Section 64.9(b), (relating to General Recordkeeping Requirements).

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

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall generate and keep records that verify the differential pressure gauge for ID C109 is properly maintained and continually operated in accordance with 40 CFR Sections 64.7(b) and (c), and the visible emission observations for S109 are conducted by trained personnel.

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

The permittee shall promptly notify the Department if the need for improved monitoring is discovered, as outlined 40 CFR Section 64.7(e).

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.511 and 40 CFR Section 64.9]

(a) The permittee shall submit semi-annual reports to the Department listing:

(1) The number, duration and cause (including unknown cause, if applicable) of excursions and the corrective actions taken; and

(2) For required differential pressure monitoring, the number, duration and cause (including unknown cause, if applicable) of all monitor downtime incidents.

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 (for the reporting period from January through June in the concurrent year) and March 1 (for the reporting period from July through December in the previous year).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

A sufficient quantity of spare fabric bags for C109 shall be kept on hand at all times in order to immediately replace any worn or damaged bags due to deterioration resulting from routine operation of Source P109 and C109.

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

Source P109 is a stucco storage bin.

**SECTION D. Source Level Requirements****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emissions of particulate matter and PM-10 from Source P109 shall be controlled by a fabric collector (C109) which shall be insulated.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) supplying compressed air to C109 shall be equipped with an air dryer and an oil trap

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P109 shall not operate if C109 is inoperable.

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

[Additional authority for this permit condition is derived from 40 CFR Section 64.6]

The permittee shall fulfill the other obligations specified in 40 CFR Sections 64.7 through 64.9. Additionally, the provisions specified under 40 CFR Section 64.8 apply to Source ID P109 if implementation of a quality improvement plan (QIP) is required. Pursuant to 40 CFR Section 64.8(a), the implementation of a QIP is required if six (6) excursions occur in a semi-annual reporting period.

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

Source ID P109 is subject to the requirement at 40 CFR Part 64, (relating to Compliance Assurance Monitoring). The permittee shall comply with all applicable provisions/requirements pertaining to Source ID P109, as specified in 40 CFR Section 64.1 through 64.10.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P110

Source Name: HRA LANDPLASTER FEED BIN 1

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]
 [Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.13 and with 40 CFR 60.672(a)(1)]

The concentration of particulate matter and particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM-10, in the exhaust of C110 associated with Source P110 shall not be in excess of 0.009 grains per dry standard cubic foot of effluent gas volume. The emissions of particulate matter and PM-10 shall not exceed 0.14 tons in any twelve consecutive month period.

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.672]**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants
Standard for particulate matter.**

The visible emissions from the exhaust of C110 associated with Source P110 shall not exceed seven percent opacity.

II. TESTING REQUIREMENTS.

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

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall continuously monitor the differential pressure across ID C110 to verify it is within 0.13 through 4.0 inches of water. An alarm shall be triggered immediately if the differential pressure is outside any of the above limits (during operation) which is defined as an excursion, herein. The accuracy of the differential pressure measurement devices shall be $\pm 0.5\%$ of the span, at least.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) While Source ID P110 is in operation, the permittee shall conduct during daylight hours daily inspections of ID C110 that consist of at least, a visual observation of the ID C110 fabric collector stack (ID S110) for a period of 1 minute to detect for the presence of visible emission. An excursion is defined as an inspection that detected visible emission from ID S110.

(b) The observations required above in paragraph (a) of this permit condition shall be conducted, as follows:

(1) Once in any calendar day at least, unless the source is not in operation during daylight hours;

(2) At location(s) at least 15 feet but not more than 1320 feet from the fabric collector with the sun generally at the observers back and where contrasting background(s) are present to the extent controllable by the observer; and

**SECTION D. Source Level Requirements**

(3) Only by personnel trained to have knowledge and understanding of the effects of background contrast, ambient lighting, and where the personnel should stand to conduct the observations.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority for this permit condition is also derived from 25 Pa. Code Section 127.511]

The permittee shall generate and keep daily records of the required monitoring data and information including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements, to verify compliance with the differential pressure and visible emission parameters.

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]

Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants Reporting and recordkeeping.

The permittee shall comply with all of the applicable recordkeeping requirements specified in 40 CFR 60.676.

V. REPORTING REQUIREMENTS.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]

Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants Reporting and recordkeeping.

The permittee shall comply with all of the applicable reporting requirements specified in 40 CFR 60.676.

VI. WORK PRACTICE REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

A sufficient quantity of spare fabric bags for C110 shall be kept on hand at all times in order to immediately replace any worn or damaged bags due to deterioration resulting from routine operation of Source P110 and C110.

VII. ADDITIONAL REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source P110 is a HRA landplaster feed bin (landplaster feed bin #1).

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emissions of particulate matter and PM-10 from Source P110 shall be controlled by a fabric collector (C110) which shall be insulated.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) supplying compressed air to C110 shall be equipped with an air dryer and an oil trap.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P110 shall not operate if C110 is inoperable.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.670]**Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants****Applicability and designation of affected facility.**

Source P110 is subject to Subpart 000 of the federal Standards of Performance for New Stationary Sources, 40 CFR 60.670-60.676, and shall comply with all applicable requirements contained therein except that particulate matter and visible emissions (opacity) testing need not be performed unless specifically requested by the Department of Environmental Protection.

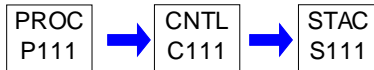
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P111

Source Name: HRA BALL MILL VENT FILTER FAN

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

[Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.13 and with 40 CFR 60.672(a)(1)]

The concentration of particulate matter and particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM-10, in the exhaust of C111 associated with Source P111 shall not be in excess of 0.009 grains per dry standard cubic foot of effluent gas volume. The emissions of particulate matter and PM-10 shall not exceed 0.27 ton in any twelve consecutive month period.

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.672]**Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants
Standard for particulate matter.**

The visible emissions from the exhaust of C111 associated with Source P111 shall not exceed seven percent opacity.

II. TESTING REQUIREMENTS.

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

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall continuously monitor the differential pressure across ID C111 to verify it is within 0.07 through 4.0 inches of water. An alarm shall be triggered immediately if the differential pressure is outside any of the above limits (during operation) which is defined as an excursion, herein. The accuracy of the differential pressure measurement devices shall be $\pm 0.5\%$ of the span, at least.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) While Source ID P111 is in operation, the permittee shall conduct during daylight hours daily inspections of ID C111 that consist of at least, a visual observation of the ID C111 fabric collector stack (ID S111) for a period of 1 minute to detect for the presence of visible emission. An excursion is defined as an inspection that detected visible emission from ID S111.

(b) The observations required above in paragraph (a) of this permit condition shall be conducted, as follows:

(1) Once in any calendar day at least, unless the source is not in operation during daylight hours;

(2) At location(s) at least 15 feet but not more than 1320 feet from the fabric collector with the sun generally at the observers back and where contrasting background(s) are present to the extent controllable by the observer; and

**SECTION D. Source Level Requirements**

(3) Only by personnel trained to have knowledge and understanding of the effects of background contrast, ambient lighting, and where the personnel should stand to conduct the observations.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority for this permit condition is also derived from 25 Pa. Code Section 127.511]

The permittee shall generate and keep daily records of the required monitoring data and information including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements, to verify compliance with the differential pressure and visible emission parameters.

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]

Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants Reporting and recordkeeping.

The permittee shall comply with all of the applicable recordkeeping requirements specified in 40 CFR 60.676.

V. REPORTING REQUIREMENTS.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]

Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants Reporting and recordkeeping.

The permittee shall comply with all of the applicable reporting requirements specified in 40 CFR 60.676.

VI. WORK PRACTICE REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

A sufficient quantity of spare fabric bags for C111 shall be kept on hand at all times in order to immediately replace any worn or damaged bags due to deterioration resulting from routine operation of Source P111 and C111.

VII. ADDITIONAL REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source P111 is a HRA ball mill vent.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emissions of particulate matter and PM-10 from Source P111 shall be controlled by a fabric collector (C111) which shall be insulated.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) supplying compressed air to C111 shall be equipped with an air dryer and an oil trap.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P111 shall not operate if C111 is inoperable.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.670]**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants****Applicability and designation of affected facility.**

Source P111 is subject to Subpart OOO of the federal Standards of Performance for New Stationary Sources, 40 CFR 60.670-60.676, and shall comply with all applicable requirements contained therein except that particulate matter and visible emissions (opacity) testing need not be performed unless specifically requested by the Department of Environmental Protection.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P112

Source Name: ADDITIVE STORAGE BIN 1

Source Capacity/Throughput:

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

[Authority is derived from 25 Pa. Code sections 127.1 and 127.12]

The concentration of particulate matter and particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM-10, in the exhaust of C112 associated with Source P112 shall not be in excess of 0.009 grains per dry standard cubic foot of effluent gas volume. The emissions of particulate matter and PM-10 shall not exceed 0.41 tons in any twelve consecutive month period.

[Compliance with the emissions limit in this permit condition assures compliance with the applicable emission limit in 25 Pa. Code Section 123.13]

II. TESTING REQUIREMENTS.

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

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

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The permittee shall continuously monitor the differential pressure across ID C112 to verify it is within 0.39 through 4.0 inches of water. An alarm shall be triggered immediately if the differential pressure is outside any of the above limits (during operation) which is defined as an excursion, herein. The accuracy of the differential pressure measurement devices shall be $\pm 0.5\%$ of the span, at least.

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

[Authority is also derived from 25 Pa. Code section 127.511]

(a) While Source ID P112 is in operation, the permittee shall conduct during daylight hours daily inspections of ID C112 that consist of a visual observation of the ID C112 fabric collector stack (ID S112) for a period of 1 minute to detect for the presence of visible emission, at least. An excursion is defined as an inspection that detected visible emission from ID S112.

(b) The observations required above in paragraph (a) of this permit condition shall be conducted, as follows:

(1) Once in any calendar day, at least, unless the source is not in operation during daylight hours;

(2) At location(s) at least 15 feet but not more than 1320 feet from the fabric collector with the sun generally at the observers back and where contrasting background(s) are present to the extent controllable by the observer; and

(3) Only by personnel trained to have knowledge and understanding of the effects of background contrast, ambient lighting,

**SECTION D. Source Level Requirements**

and where the personnel should stand to conduct the observations.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority is also derived from 25 Pa. Code section 127.511]

The permittee shall generate and keep daily records of the required monitoring data and information including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements, to verify compliance with the differential pressure and visible emission parameters.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

A sufficient quantity of spare fabric bags for C112 shall be kept on hand at all times in order to immediately replace any worn or damaged bags due to deterioration resulting from routine operation of Source P112 and C112.

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source P112 is additive storage bin #1 equipped with a filter receiver (C112).

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The emissions of particulate matter and PM-10 from the additive storage bin associated with Source P112 shall be controlled by a fabric filter (C112) which shall be insulated.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The air compressor(s) supplying compressed air to C112 shall be equipped with an air dryer and an oil trap.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority is also derived from 25 Pa. Code sections 127.1 and 127.12]

The additive storage bin associated with Source P112 shall not operate if C112 is inoperable.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P113

Source Name: ROTARY SCREEN & DRY ADDITIVE SOURCES

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

[Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.13]

The concentration of particulate matter and particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM-10, in the exhaust of C113 associated with Source P113 shall not be in excess of 0.009 grains per dry standard cubic foot of effluent gas volume. The emissions of particulate matter and PM-10 shall not exceed 2.70 tons in any twelve consecutive month period.

II. TESTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from 40 CFR Section 64.6 and 25 Pa. Code Section 127.511]

(a) While Source ID P113 is in operation, the permittee shall conduct during daylight hours daily inspections of ID C113 that consist of at least, a visual observation of the ID C113 fabric collector stack (ID S113) for a period of 1 minute to detect for the presence of visible emission. An excursion is defined as an inspection that detected visible emission from ID S113.

(b) The observations required above in paragraph (a) of this permit condition shall be conducted, as follows:

(1) Once in any calendar day at least, unless the source is not in operation during daylight hours;

(2) At location(s) at least 15 feet but not more than 1320 feet from the fabric collector with the sun generally at the observers back and where contrasting background(s) are present to the extent controllable by the observer; and

(3) Only by personnel trained to have knowledge and understanding of the effects of background contrast, ambient lighting, and where the personnel should stand to conduct the observations.

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12, and 40 CFR Section 64.6]

The permittee shall continuously monitor the differential pressure across ID C113 to verify it is within 1.95 through 4.0 inches of water. An alarm shall be triggered immediately if the differential pressure is outside any of the above limits (during operation) which is defined as an excursion, herein. The accuracy of the differential pressure measurement devices shall be $\pm 0.5\%$ of the span, at least.

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

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall generate and keep daily records of the required monitoring data and information including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements, to verify compliance with the differential pressure and visible emission parameters. The records shall also include the information as required in 40 CFR Section 64.9(b), (relating to General Recordkeeping Requirements).

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

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall generate and keep records that verify the differential pressure gauge for ID C113 is properly maintained and continually operated in accordance with 40 CFR Sections 64.7(b) and (c), and the visible emission observations for S113 are conducted by trained personnel.

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.511 and 40 CFR Section 64.9]

(a) The permittee shall submit semi-annual reports to the Department listing:

(1) The number, duration and cause (including unknown cause, if applicable) of excursions and the corrective actions taken; and

(2) For required differential pressure monitoring, the number, duration and cause (including unknown cause, if applicable) of all monitor downtime incidents.

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 (for the reporting period from January through June in the concurrent year) and March 1 (for the reporting period from July through December in the previous year).

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

The permittee shall promptly notify the Department if the need for improved monitoring is discovered, as outlined 40 CFR Section 64.7(e).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

A sufficient quantity of spare fabric bags for C113 shall be kept on hand at all times in order to immediately replace any worn or damaged bags due to deterioration resulting from routine operation of Source P113 and C113.

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

Source P113 consists of a rotary screen, an additive storage bin (#2), a paper fiber mill, a wet mixer and a screw conveyor.

**SECTION D. Source Level Requirements****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emissions of particulate matter and PM-10 from the rotary screen, additive storage bin #2, paper fiber mill and the wet mixer contained in Source P113 shall be controlled by a fabric collector (C113) which shall be insulated. Additionally, C113 shall incorporate a dust collection point at the dry additive feed to the screw conveyor.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) supplying compressed air to C113 shall be equipped with an air dryer and an oil trap.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P113 shall not operate if C113 is inoperable.

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

[Additional authority for this permit condition is derived from 40 CFR Section 64.6]

The permittee shall fulfill the other obligations specified in 40 CFR Sections 64.7 through 64.9. Additionally, the provisions specified under 40 CFR Section 64.8 apply to Source ID P113 if implementation of a quality improvement plan (QIP) is required. Pursuant to 40 CFR Section 64.8(a), the implementation of a QIP is required if six (6) excursions occur in a semi-annual reporting period.

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

Source ID P113 is subject to the requirement at 40 CFR Part 64, (relating to Compliance Assurance Monitoring). The permittee shall comply with all applicable provisions/requirements pertaining to Source ID P113, as specified in 40 CFR Section 64.1 through 64.10.

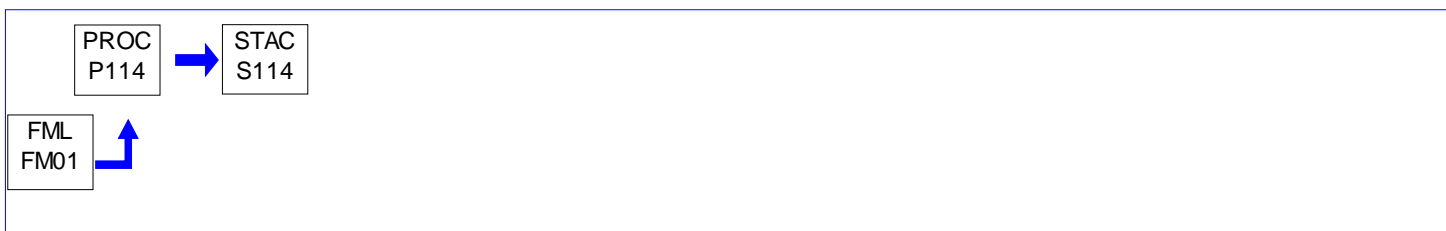
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P114

Source Name: BOARD KILN DRYER

Source Capacity/Throughput: 207.500 MMBTU/HR

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

[Authority for this permit condition is also derived from 25 Pa. Code sections 127.1 and 127.12]

The nitrogen oxides emissions, expressed as nitrogen dioxide, from the exhaust of Source ID P114 shall not exceed 0.0365 pounds per million Btu of heat input and 33.18 tons in any twelve consecutive month period.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Authority for this permit condition is also derived from 25 Pa. Code sections 127.1 and 127.12]

The carbon monoxide emissions from the exhaust of Source ID P114 shall not exceed 0.0621 pounds per million Btu of heat input and 56.44 tons in any twelve consecutive month period.

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

[Authority for this permit condition is also derived from 25 Pa. Code sections 127.1 and 127.12]

[Compliance with this SO₂ limit assures compliance with 25 Pa. Code section 123.21]

The sulfur oxides emissions, expressed as sulfur dioxide, from the exhaust of Source ID P114 shall not exceed 0.0006 pounds per million Btu of heat input and 0.55 tons in any twelve consecutive month period.

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

[Authority for this permit condition is also derived from 25 Pa. Code sections 127.1 and 127.12]

(a) The emissions of volatile organic compounds, expressed as sum of NMHCs and formaldehyde, from the exhaust of Source ID P114 shall not exceed 3.0 pounds per hour (lb/hr), while the source is producing wallboard without the water resistant additive.

(b) The emissions of volatile organic compounds, expressed as NMOCs, from the exhaust of Source ID P114 shall not exceed 0.0372 pounds per pound of water resistant additive (lb/lb WRA), while the source is producing wallboard with the water resistant additive (WRA).

Compliance with the above emission limitations in (a) and (b), above shall be determined by performance of Department-approved stack tests, as required under Testing Requirements, herein.

(c) The combined total emissions of volatile organic compounds from the exhaust of Source ID P114 shall not exceed 32.1 tons in any twelve consecutive month period.

**SECTION D. Source Level Requirements**

Compliance with the above emission limitation in (c), above shall be determined on a calendar month basis, as required under Recordkeeping Requirements, herein.

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

[Authority for this permit condition is also derived from 25 Pa. Code sections 127.1 and 127.12]

(a) The combined total emissions of hazardous air pollutants (HAP) from the exhaust of Source ID P114 shall not exceed 9.39 to 15 tons in any twelve consecutive month period (12 CMP). A combined total HAP emissions rate below 9.39 tons in any 12 CMP will not be considered an exceedance.

(b) The final combined total HAP emissions limitation for the operation of Source ID P114 specified in paragraph (a) above will be established (between 9.39 and 15 tons in any 12 CMP) by the Department upon evaluation of emissions data from the HAP stack testing, as required herein, and will be incorporated into the Title V operating permit.

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

[Authority for this permit condition is also derived from 25 Pa. Code sections 127.1 and 127.12]

The volatile organic compound content of the chain lube oil, soap and waste water shall not exceed 6.23 pounds per gallon, 1.4% by weight and 0.01% by weight, respectively. None of these three materials shall contain any hazardous air pollutants.

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

[Authority for this permit condition is also derived from 25 Pa. Code sections 127.1 and 127.12]

(a) The emissions of PM-10 (total, including filterable and condensable) in the exhaust of Source ID P114 shall not exceed 4.57 pounds per hour, while the source produces wallboard without the water resistant additive.

(b) The emissions of PM-10 (total, filterable and condensable) in the exhaust of Source ID P114 shall not exceed 23.40 pounds per hour, while the source produces wallboard with the water resistant additive.

(c) The emissions of PM-10 (filterable and condensable fractions) in the exhaust of Source ID P114 shall not exceed 29.1 tons in any twelve consecutive month period.

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

[Authority for this permit condition is also derived from 25 Pa. Code sections 127.1 and 127.12]

(a) The emissions of formaldehyde from the exhaust of Source ID P114 shall not exceed 1.47 pounds per hour, while the source produces wallboard without the water resistant additive.

(b) The emissions of formaldehyde from the exhaust of Source ID P114 shall not exceed 3.60 pounds per hour, while the source produces wallboard with the water resistant additive.

(c) The combined total emissions of formaldehyde from the exhaust of Source ID P114 shall not exceed 7.40 tons in any twelve consecutive month period.

Throughput Restriction(s).**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority for this permit condition is also derived from 25 Pa. Code sections 127.1 and 127.12]

**SECTION D. Source Level Requirements**

Source ID P114 shall use no more than 33,600 pounds of chain lube oil, 500,000 pounds of soap and 20,000,000 pounds of waste water in any twelve consecutive month period.

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

[Authority for this permit condition is also derived from 25 Pa. Code sections 127.1 and 127.12]

(a) The permittee shall only use a methyl hydrogen siloxane (CAS no. 63148-57-2) raw material as the water resistant additive to the wallboard manufacturing process. This raw material shall be free of solvents containing hazardous air pollutants or volatile organic compounds unless otherwise approved in writing by the Department.

(b) The permittee shall use no more than a combined total of 1,100,000 pounds of water resistant additives in any twelve consecutive month period.

If a particular source or modification becomes a major facility or major modification solely by virtue of a relaxation in an enforcement limitation which was established after August 7, 1980, on the capacity of the source or modification to emit a pollutant including the above restriction, the requirements of 25 Pa. Code Chapter 127, Subchapter E also apply to the source or modification as though construction had not yet commenced on the source or modification.

(c) The permittee shall use no more than 1153 pounds per hour of water resistant additive, based on 3-hour block averages.

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

(a) No later than 30 days after issuance of this Title V operating permit (DEP Auth ID 1411501), the permittee shall submit a test protocol for the emissions of volatile organic compound (VOCs), PM-10 (including filterable and condensable), nitrogen oxides (NOx), and carbon monoxide (CO), and formaldehyde including any other HAPs from Source ID P114, while the source is operating at worst-case conditions under the WRA wallboard operating scenario, as well as during a period while the source is operating at MAX Kiln Capacity under the without WRA wallboard operating scenario, using methods and other procedures acceptable to the Department in order to verify compliance.

(b) The testing shall be performed using methods and procedures acceptable to the Department in accordance with 25 Pa. Code Chapter 139 no later than 90 days after the test protocol has been approved by the Department.

(c) After the testing in paragraph (b) is completed, the permittee shall conduct subsequent testing using method and procedures acceptable to the Department in accordance with 25 Pa. Code Chapter 139 once in every 5-calendar year period.

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

(a) At all times of operation except during monitoring malfunctions, as specified below, the permittee shall operate instrumentation to continuously monitor and electronically record separately the usages of chain lube oil, soap and waste water. Each parameter's average hourly data shall be reduced to calendar month sum totals (pounds/calendar month).

(b) Monitor malfunctions, associated repairs and required performance evaluations. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

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

(a) At all times of operation except during monitoring malfunctions, as specified below, the permittee shall operate

**SECTION D. Source Level Requirements**

instrumentation to continuously monitor and electronically record the usage of siloxane-based water resistant additive (lb WRA/hr), based on 3-hour block averages.

(b) Monitor malfunctions, associated repairs and required performance evaluations. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

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

[Authority for this permit condition is also derived from 25 Pa. Code sections 127.1 and 127.12]

For each wallboard production the permittee shall continuously monitor Line Speed to verify that the Department-approved worst-case conditions are not exceeded at any time, unless the permittee can demonstrate to the Department's satisfaction that a higher wallboard production rate would comply with all the applicable requirements including, but may not be limited to, the Best Available Technology (BAT) requirements of 25 Pa. Code sections 127.1 and 127.12, herein.

Upon request, the permittee shall present the Department with accurate and comprehensive records including Line Speed monitor data for each Source ID P114 operating scenario in order to verify compliance with the monitoring requirements of this condition, above. All records required above shall be retained for at least five years.

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

The permittee shall maintain accurate and comprehensive records on a monthly basis of the following information:

- (1) the identity, quantity (pounds), volatile organic compound content (pounds per gallon) and hazardous air pollutant content (pounds per gallon) of the chain lube oils used in the board kiln dryer associated with Source ID P114 during each calendar month and any 12 consecutive month period;
- (2) the identity, quantity (pounds), volatile organic compound content (percent by weight) and hazardous air pollutant content (percent by weight) of the soaps used in the board kiln dryer associated with Source ID P114 during each calendar month and any 12 consecutive month period;
- (3) the identity or sources, quantity (pounds), volatile organic compound content (percent by weight) and hazardous air pollutant content (percent by weight) of the waste water used in the board kiln dryer associated with Source ID P114 during each calendar month and any 12 consecutive month period;
- (4) the identity, quantity (pounds), volatile organic compound content (pounds per gallon) and hazardous air pollutant content (pounds per gallon) of water resistant additives used on a calendar month and 12-month rolling period basis;
- (5) the amount of natural gas used to operate the board kiln dryer associated with Source ID P114 during each calendar month and any 12 consecutive month period;
- (6) the total hours of operation of Source ID P114 under the without WRA operating scenario on a calendar month and 12-month rolling basis; and
- (7) mass quantity of emissions for each of the following pollutants based 12-month rolling sum total; PM-10, volatile organic compounds, formaldehyde, and hazardous pollutants, as determined according to the Recordkeeping Requirements, herein.

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

All records required herein shall be retained for at least five years and shall be made available to the Department upon request.

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

(a) Compliance with the Tons per 12 consecutive month period (CMP) emission restrictions shall be determined monthly using the following equation, based on a 12-month rolling sum total usages of water resistant additives:

$$\text{EMISSION}_{\text{Ston},x} = (\text{USAGE} * \text{EF}_{\text{wra},x} + \text{HOURS}_{\text{w/o}} * \text{ER}_{\text{w/o},x}) * 1 \text{ ton}/2000 \text{ lb}$$

Where:

$\text{EMISSION}_{\text{Ston},x}$ = Mass Quantity of Emissions for Pollutant X in the previous 12 calendar months, in units of tons per 12 CMP, where X is PM-10 / volatile organic compounds / formaldehyde / hazardous air pollutants;

USAGE = Mass Quantity of Water Resistant Additives (sum total) used in the previous 12 calendar months, in units of pounds per 12 CMP;

$\text{EF}_{\text{wra},x}$ = Source ID P114 Emission Factor for Pollutant X for the WRA wallboard operating scenario, in units of pounds, x per pounds, wra;

$\text{HOURS}_{\text{w/o}}$ = Amount of Time in previous 12 calendar months Source ID P114 was in operation under the without WRA wallboard scenario, in units of hours per 12 CMP; and

$\text{ER}_{\text{w/o},x}$ = Source ID P114 Emission Rate for Pollutant X for the without WRA wallboard operating scenario, in units of pounds, x per hour.

Where:

Source ID P114 Emission Factor for the WRA wallboard operating scenario = The WRA wallboard pound per pound emission factor for each pollutant as follows: PM-10 = 0.0203 lb/lb; volatile organic compounds = 0.0372 lb/lb; formaldehyde = 0.0031 lb/lb; hazardous air pollutants = 0.0047 lb/lb; and

Source ID P114 Emission Rate for the without WRA wallboard operating scenario = The without WRA wallboard pound per hour emission rate for each pollutant as follows: PM-10 = 4.57 lb/hr; volatile organic compounds = 3.0 lb/hr; formaldehyde = 1.47 lb/hr; hazardous air pollutants = 1.86 lb/hr.

(b) For each pollutant and operating scenario, if the most recent stack test result is greater than the corresponding Emission Factor/Rate used to verify compliance, the permittee shall use the highest value unless otherwise approved in writing by the Department.

(c) Upon request by the Department, the permittee shall provide year-to-date VOC emission calculations using the above equation in paragraph (a) of this permit condition.

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

The permittee shall generate and keep monthly records of the required monitoring data and calculations including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements of Title V Permit No: 47-00014, to verify compliance with the water resistant additive throughput restrictions, as well as records of the total operating time with the WRA, the total valid WRA usage monitoring hours and the percentage of total operating time with valid hours. A valid hour is any operating hour that has a valid reading in each 15-minute quadrant.

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

(a) The permittee shall submit semi-annual reports to the Department listing the following for Source ID P114:

(1) the identity, quantity (pounds), volatile organic compound content (pounds per gallon) and hazardous air pollutant

**SECTION D. Source Level Requirements**

content (pounds per gallon) of the chain lube oils used in the board kiln dryer associated with Source ID P114 during each calendar month and any 12 consecutive month period;

(2) the identity, quantity (pounds), volatile organic compound content (percent by weight) and hazardous air pollutant content (percent by weight) of the soaps used in the board kiln dryer associated with Source ID P114 during each calendar month and any 12 consecutive month period;

(3) the identity or sources, quantity (pounds), volatile organic compound content (percent by weight) and hazardous air pollutant content (percent by weight) of the waste water used in the board kiln dryer associated with Source ID P114 during each calendar month and any 12 consecutive month period;

(4) the identity, quantity (pounds), volatile organic compound content (pounds per gallon) and hazardous air pollutant content (pounds per gallon) of water resistant additives used on a calendar month and 12-month rolling period basis;

(5) the amount of natural gas used to operate the board kiln dryer associated with Source ID P114 during each calendar month and any 12 consecutive month period;

(6) the total hours of operation of Source ID P114 under the without WRA operating scenario on a calendar month and 12-month rolling basis; and

(7) mass quantity of emissions for each of the following pollutants based 12-month rolling sum totals; PM-10, volatile organic compounds, formaldehyde, and hazardous pollutants, as determined according to the Recordkeeping Requirements, herein.

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 of each year for the immediately-preceding January through June six month reporting period and March 1 of each year for the immediately-preceding July through December six month reporting period.

VI. WORK PRACTICE REQUIREMENTS.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority for this permit condition is also derived from 25 Pa. Code sections 127.1 and 127.12]

Each of the two Maxon Corporation M-PAKT end seal burners incorporated in Source ID P114 shall be operated using good combustion and maintenance practices which shall consist of the installation, maintenance and operation of the end seal burners in accordance with the manufacturer's specifications.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall conduct routine annual housekeeping tasks to prevent a buildup of material inside the kiln from reoccurring.

VII. ADDITIONAL REQUIREMENTS.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority for this permit condition is also derived from 25 Pa. Code sections 127.1 and 127.12]

a) Source ID P114 is a board kiln dryer incorporating:

- i) the two Eclipse Vortometric 28V-MI-S-LN20 natural gas-fired burners; and
- ii) the two Maxon Corporation M-PAKT end seal natural gas-fired burners.

b) The rated heat input of each of the two Eclipse Vortometric 28V-MI-S-LN20 burners shall not exceed 100 million Btu per hour and the rated heat input of the two Maxon Corporation M-PAKT end seal burners shall not exceed 2.5 million BTU per hour and 5.0 million BTU per hour, respectively.

**SECTION D. Source Level Requirements****# 023 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority for this permit condition is also derived from 25 Pa. Code sections 127.1 and 127.12]

The two Eclipse Vortometric 28V-MI-S-LN20 natural gas-fired burners incorporated in Source ID P114 shall be low nitrogen oxides (low NOx) burners.

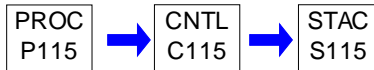
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P115

Source Name: END SAW

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

[Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.13]

The concentration of particulate matter and particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM-10, in the exhaust of C115 associated with Source P115 shall not be in excess of 0.009 grains per dry standard cubic foot of effluent gas volume. The emissions of particulate matter and PM-10 shall not exceed 3.37 tons in any twelve consecutive month period.

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

(a) Along with the performance test required herein. The permittee shall also conduct stack testing on the exhaust of the baghouse Source ID C115 to verify compliance with the emission restrictions herein.

(b) All testing shall be performed while the source(s) controlled by the collector being tested are operating at maximum routine operating conditions, using test procedures acceptable to the Department in accordance with 25 Pa. Code Chapter 139.

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

[Additional authority for this permit condition is derived from 40 CFR Section 64.6 and 25 Pa. Code Section 127.511]

(a) While Source ID P115 is in operation, the permittee shall conduct during daylight hours daily inspections of ID C115 that consist of at least, a visual observation of the ID C115 fabric collector stack (ID S115) for a period of 1 minute to detect for the presence of visible emission. An excursion is defined as an inspection that detected visible emission from ID S115.

(b) The observations required above in paragraph (a) of this permit condition shall be conducted, as follows:

(1) Once in any calendar day at least, unless the source is not in operation during daylight hours;

(2) At location(s) at least 15 feet but not more than 1320 feet from the fabric collector with the sun generally at the observers back and where contrasting background(s) are present to the extent controllable by the observer; and

(3) Only by personnel trained to have knowledge and understanding of the effects of background contrast, ambient lighting, and where the personnel should stand to conduct the observations.

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12, and 40 CFR Section 64.6]

The permittee shall continuously monitor the differential pressure across ID C115 to verify it is within 1.6 through 6.0 inches of water. An excursion is defined as a calendar-day average differential pressure outside of any of the above limits, based

**SECTION D. Source Level Requirements**

on valid operating data. The accuracy of the differential pressure measurement devices shall be $\pm 0.5\%$ of the span, at least.

The permittee shall set a high operating differential pressure alarm at 5.5 inches of water, which shall trigger an investigation at once by the permittee as to whether the alarm was caused by an upset condition or normal operation and corrective action, as necessary.

IV. RECORDKEEPING REQUIREMENTS.**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep a copy of the Department-approved standard operating procedures manual for the inspection and routine maintenance of ID C115. Additionally, the permittee shall maintain records documenting compliance with the inspection and routine maintenance requirements as specified herein under Work Practice Requirements.

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

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall generate and keep daily records of the required monitoring data and information including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements, to verify compliance with the differential pressure and visible emission parameters. The records shall also include the information as required in 40 CFR Section 64.9(b), (relating to General Recordkeeping Requirements).

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

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall generate and keep records that verify the differential pressure gauge for ID C115 is properly maintained and continually operated in accordance with 40 CFR Sections 64.7(b) and (c), and the visible emission observations for S115 are conducted by trained personnel.

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

The permittee shall promptly notify the Department if the need for improved monitoring is discovered, as outlined 40 CFR Section 64.7(e).

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.511 and 40 CFR Section 64.9]

(a) The permittee shall submit semi-annual reports to the Department listing:

(1) The number, duration and cause (including unknown cause, if applicable) of excursions and the corrective actions taken; and

(2) For required differential pressure monitoring, the number, duration and cause (including unknown cause, if applicable) of all monitor downtime incidents.

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 (for the reporting period from January through June in the concurrent year) and March 1 (for the reporting period from July through December in the previous year).

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

[Additional authority for this permit condition is derived from 40 CFR Part 64 and 25 Pa. Code section 127.511]

(a) Prior to implementing any revisions, the permittee shall submit the revised standard operating procedures pertaining to the inspection and routine maintenance of ID C115 for Department review and approval. Any revised procedures shall be consistent with the manufacturer's preventative maintenance schedule for routine and long-term maintenance and/or other information as approved by the Department. At a minimum, the permittee shall conduct the procedures specified in the following requirements in accordance with the manufacturer's specifications and good operating practices.

- (1) Routine confirmation that dust is being removed from hoppers through visual inspection or equivalent means of ensuring the proper functioning of removal mechanisms.
- (2) Routine check of compressed air supply equipment to ensure proper operation.
- (3) An appropriate methodology for monitoring cleaning cycles to ensure proper operation.
- (4) Routine check of bag cleaning mechanisms for proper functioning through auditory inspection or equivalent means.
- (5) Routine visual check to verify none of the baghouse internal components are out of alignment, damaged, or worn.
- (6) Routine confirmation of the physical integrity of the baghouse through visual inspection of the baghouse interior for wear, material buildup, and corrosion.
- (7) Routine inspection of fans for wear, material buildup, and corrosion through visual inspection, vibration detectors, or equivalent means.
- (8) Routine test of the bags and tube-sheet using a fluorescence product. This product shall be introduced into the Source ID P115 process to check the performance of ID C115. The color of the powder shall be changed from test to test. After the colored material is sucked through ID C115, the permittee shall immediately open-up the baghouse and inspect its clean-side plenum with a black light to see if any of the color made it through. If any colored material is seen, corrective actions shall be completed at once prior to resuming operations.

(b) Any routine inspection, test, check, etc. that determines the respective equipment is need of repair or otherwise improperly functioning is a condition designated as an excursion.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

A sufficient quantity of spare fabric bags for C115 shall be kept on hand at all times in order to immediately replace any worn or damaged bags due to deterioration resulting from routine operation of Source P115 and C115.

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

Source ID P115 is subject to the requirement at 40 CFR Part 64, (relating to Compliance Assurance Monitoring). The permittee shall comply with all applicable provisions/requirements pertaining to Source ID P115, as specified in 40 CFR Section 64.1 through 64.10.

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

Source P115 consists of an end saw which is used to cut the dried wallboard to final length.

**SECTION D. Source Level Requirements****# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emissions of particulate matter and PM-10 from Source P115 shall be controlled by a fabric collector (C115).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) supplying compressed air to C115 shall be equipped with an air dryer and an oil trap.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P115 shall not operate if C115 is inoperable.

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

[Additional authority for this permit condition is derived from 40 CFR Section 64.6]

The permittee shall fulfill the other obligations specified in 40 CFR Sections 64.7 through 64.9. Additionally, the provisions specified under 40 CFR Section 64.8 apply to Source ID P115 if implementation of a quality improvement plan (QIP) is required. Pursuant to 40 CFR Section 64.8(a), the implementation of a QIP is required if six (6) excursions occur in a semi-annual reporting period.

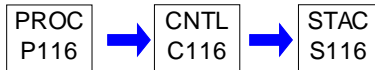
*** **Permit Shield in Effect.** ***

**SECTION D. Source Level Requirements**

Source ID: P116

Source Name: DUNNAGE MACHINE

Source Capacity/Throughput:

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

The total combined hazardous air pollutants emissions from the glues used in dunnage machine (Source ID P116) as well as for board paper (Source ID P120) shall not exceed 0.2 ton in any twelve consecutive month period.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

[Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.13]

The concentration of particulate matter and particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM-10, in the exhaust of C116 associated with Source P116 shall not be in excess of 0.009 grains per dry standard cubic foot of effluent gas volume. The emissions of particulate matter and PM-10 shall not exceed 3.37 tons in any twelve consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The total combined volatile organic compound emissions from the glues used in dunnage machine (Source ID P116) as well as for board paper (Source ID P120) shall not exceed 0.72 tons in any twelve consecutive month period.

II. TESTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from 40 CFR Section 64.6 and 25 Pa. Code Section 127.511]

(a) While Source ID P116 is in operation, the permittee shall conduct during daylight hours daily inspections of ID C116 that consist of at least, a visual observation of the ID C116 fabric collector stack (ID S116) for a period of 1 minute to detect for the presence of visible emission. An excursion is defined as an inspection that detected visible emission from ID S116.

(b) The observations required above in paragraph (a) of this permit condition shall be conducted, as follows:

(1) Once in any calendar day at least, unless the source is not in operation during daylight hours;

(2) At location(s) at least 15 feet but not more than 1320 feet from the fabric collector with the sun generally at the observers back and where contrasting background(s) are present to the extent controllable by the observer; and

(3) Only by personnel trained to have knowledge and understanding of the effects of background contrast, ambient lighting, and where the personnel should stand to conduct the observations.

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12, and 40 CFR Section 64.6]

The permittee shall continuously monitor the differential pressure across ID C116 to verify it is within 0.1 through 4.0 inches of water. An alarm shall be triggered immediately if the differential pressure is outside any of the above limits (during operation) which is defined as an excursion, herein. The accuracy of the differential pressure measurement devices shall be $\pm 0.5\%$ of the span, at least.

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

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall generate and keep daily records of the required monitoring data and information including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements, to verify compliance with the differential pressure and visible emission parameters. The records shall also include the information as required in 40 CFR Section 64.9(b), (relating to General Recordkeeping Requirements).

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

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall generate and keep records that verify the differential pressure gauge for ID C116 is properly maintained and continually operated in accordance with 40 CFR Sections 64.7(b) and (c), and the visible emission observations for S104 are conducted by trained personnel.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall generate and keep monthly records of the following information to verify compliance with the VOC and HAP emission restrictions:

(1) The identity, quantity (pounds), VOC content (% by weight), and HAP content (% by weight), of each glue used at the facility in any calendar month and 12 consecutive month period, as well as the supporting information and monitoring data; and

(2) The total combined VOC and HAP emissions from the glues on a monthly and 12-month rolling basis, including the intermediate calculations.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall submit semi-annual reports to the Department listing the following information:

(1) The identity, quantity (pounds), VOC content (% by weight), and HAP content (% by weight), of each glue used at the facility in any calendar month and 12 consecutive month period, as well as the supporting information and monitoring data; and

(2) The total combined VOC and HAP emissions from the glues on a monthly and 12-month rolling basis, including the intermediate calculations.

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 of each year (for the

**SECTION D. Source Level Requirements**

immediately-preceding January through June six month period) and March 1 of each year (for the immediately-preceding July through December six month period).

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

The permittee shall promptly notify the Department if the need for improved monitoring is discovered, as outlined 40 CFR Section 64.7(e).

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.511 and 40 CFR Section 64.9]

(a) The permittee shall submit semi-annual reports to the Department listing:

(1) The number, duration and cause (including unknown cause, if applicable) of excursions and the corrective actions taken; and

(2) For required differential pressure monitoring, the number, duration and cause (including unknown cause, if applicable) of all monitor downtime incidents.

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 (for the reporting period from January through June in the concurrent year) and March 1 (for the reporting period from July through December in the previous year).

VI. WORK PRACTICE REQUIREMENTS.**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

All containers of glues shall be kept closed except when removing material from, or placing material into, the containers.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

A sufficient quantity of spare fabric bags for C116 shall be kept on hand at all times in order to immediately replace any worn or damaged bags due to deterioration resulting from routine operation of Source P116 and C116.

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

Source P116 consists of the dunnage machine operation.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emissions of particulate matter and PM-10 from Source P116 shall be controlled by a fabric collector (C116).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) supplying compressed air to C116 shall be equipped with an air dryer and an oil trap.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P116 shall not operate if C116 is inoperable.

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

[Additional authority for this permit condition is derived from 40 CFR Section 64.6]

The permittee shall fulfill the other obligations specified in 40 CFR Sections 64.7 through 64.9. Additionally, the provisions specified under 40 CFR Section 64.8 apply to Source ID P116 if implementation of a quality improvement plan (QIP) is required. Pursuant to 40 CFR Section 64.8(a), the implementation of a QIP is required if six (6) excursions occur in a semi-annual reporting period.

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

Source ID P116 is subject to the requirement at 40 CFR Part 64, (relating to Compliance Assurance Monitoring). The permittee shall comply with all applicable provisions/requirements pertaining to Source ID P116, as specified in 40 CFR Section 64.1 through 64.10.

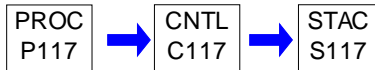
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P117

Source Name: WASTE RECLAIM HOPPER

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

[Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.13]

The concentration of particulate matter and particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM-10, in the exhaust of C117 associated with Source P117 shall not be in excess of 0.009 grains per dry standard cubic foot of effluent gas volume. The emissions of particulate matter and PM-10 shall not exceed 2.24 tons in any twelve consecutive month period.

II. TESTING REQUIREMENTS.

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

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12, and 40 CFR Section 64.6]

The permittee shall continuously monitor the differential pressure across ID C117 to verify it is within 0.76 through 4.0 inches of water. An alarm shall be triggered immediately if the differential pressure is outside any of the above limits (during operation) which is defined as an excursion, herein. The accuracy of the differential pressure measurement devices shall be $\pm 0.5\%$ of the span, at least.

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

[Additional authority for this permit condition is derived from 40 CFR Section 64.6 and 25 Pa. Code Section 127.511]

(a) While Source ID P117 is in operation, the permittee shall conduct during daylight hours daily inspections of ID C117 that consist of at least, a visual observation of the ID C117 fabric collector stack (ID S117) for a period of 1 minute to detect for the presence of visible emission. An excursion is defined as an inspection that detected visible emission from ID S117.

(b) The observations required above in paragraph (a) of this permit condition shall be conducted, as follows:

(1) Once in any calendar day at least, unless the source is not in operation during daylight hours;

(2) At location(s) at least 15 feet but not more than 1320 feet from the fabric collector with the sun generally at the observers back and where contrasting background(s) are present to the extent controllable by the observer; and

(3) Only by personnel trained to have knowledge and understanding of the effects of background contrast, ambient lighting, and where the personnel should stand to conduct the observations.

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

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall generate and keep daily records of the required monitoring data and information including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements, to verify compliance with the differential pressure and visible emission parameters. The records shall also include the information as required in 40 CFR Section 64.9(b), (relating to General Recordkeeping Requirements).

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

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall generate and keep records that verify the differential pressure gauge for ID C117 is properly maintained and continually operated in accordance with 40 CFR Sections 64.7(b) and (c), and the visible emission observations for S117 are conducted by trained personnel.

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

The permittee shall promptly notify the Department if the need for improved monitoring is discovered, as outlined 40 CFR Section 64.7(e).

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.511 and 40 CFR Section 64.9]

(a) The permittee shall submit semi-annual reports to the Department listing:

(1) The number, duration and cause (including unknown cause, if applicable) of excursions and the corrective actions taken; and

(2) For required differential pressure monitoring, the number, duration and cause (including unknown cause, if applicable) of all monitor downtime incidents.

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 (for the reporting period from January through June in the concurrent year) and March 1 (for the reporting period from July through December in the previous year).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

A sufficient quantity of spare fabric bags for C117 shall be kept on hand at all times in order to immediately replace any worn or damaged bags due to deterioration resulting from routine operation of Source P117 and C117.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The waste reclaim hopper fabric collector (C117) shall incorporate a dust collection point at the discharge of the waste

**SECTION D. Source Level Requirements**

reclaim hopper (Source P117) onto the 3' x 1000' partially enclosed conveyor contained in Source P119.

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

P117 is a waste reclaim hopper and C117 is the dust collector for the waste reclaim hopper sized at approximately 6,630 scfm.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emissions of particulate matter and PM-10 from Source P117 shall be controlled by a fabric collector (C117).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) supplying compressed air to C117 shall be equipped with an air dryer and an oil trap.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P117 shall not operate if C117 is inoperable.

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

[Additional authority for this permit condition is derived from 40 CFR Section 64.6]

The permittee shall fulfill the other obligations specified in 40 CFR Sections 64.7 through 64.9. Additionally, the provisions specified under 40 CFR Section 64.8 apply to Source ID P117 if implementation of a quality improvement plan (QIP) is required. Pursuant to 40 CFR Section 64.8(a), the implementation of a QIP is required if six (6) excursions occur in a semi-annual reporting period.

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

Source ID P117 is subject to the requirement at 40 CFR Part 64, (relating to Compliance Assurance Monitoring). The permittee shall comply with all of the applicable provisions/requirements pertaining to Source ID P117, as specified in 40 CFR Section 64.1 through 64.10.

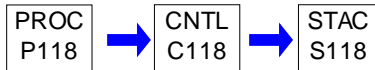
*** **Permit Shield in Effect.** ***

**SECTION D. Source Level Requirements**

Source ID: P118

Source Name: WASTE VACUUM RECEIVER

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

[Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.13]

The concentration of particulate matter and particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM-10, in the exhaust of C118 associated with Source P118 shall not be in excess of 0.009 grains per dry standard cubic foot of effluent gas volume. The emissions of particulate matter and PM-10 shall not exceed 0.84 tons in any twelve consecutive month period.

II. TESTING REQUIREMENTS.

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

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

[Authority for this condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall continuously monitor the differential pressure across ID C118 to verify it is within 0.12 through 4.0 inches of water. An alarm shall be triggered immediately if the differential pressure is outside any of the above limits (during operation) which is defined as an excursion, herein. The accuracy of the differential pressure measurement devices shall be $\pm 0.5\%$ of the span, at least.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) While Source ID P118 is in operation, the permittee shall conduct during daylight hours daily inspections of ID C118 that consist of at least, a visual observation of the ID C118 fabric collector stack (ID S118) for a period of 1 minute to detect for the presence of visible emission. An excursion is defined as an inspection that detected visible emission from ID S118.

(b) The observations required above in paragraph (a) of this permit condition shall be conducted, as follows:

(1) Once in any calendar day at least, unless the source is not in operation during daylight hours;

(2) At location(s) at least 15 feet but not more than 1320 feet from the fabric collector with the sun generally at the observers back and where contrasting background(s) are present to the extent controllable by the observer; and

(3) Only by personnel trained to have knowledge and understanding of the effects of background contrast, ambient lighting, and where the personnel should stand to conduct the observations.

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

[Authority for this permit condition is also derived from 25 Pa. Code Section 127.511]

The permittee shall generate and keep daily records of the required monitoring data and information including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements, to verify compliance with the differential pressure and visible emission parameters.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

A sufficient quantity of spare fabric bags for C118 shall be kept on hand at all times in order to immediately replace any worn or damaged bags due to deterioration resulting from routine operation of Source P118 and C118.

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

Source P118 is a waste vacuum receiver.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emissions of particulate matter and PM-10 from Source P118 shall be controlled by a cartridge collector (C118).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) supplying compressed air to C118 shall be equipped with an air dryer and an oil trap.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P118 shall not operate if C118 is inoperable.

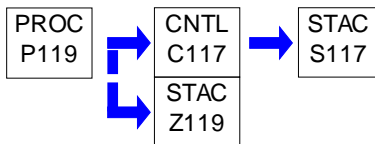
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**SECTION D. Source Level Requirements**

Source ID: P119

Source Name: GYPSUM STORAGE, HANDLING AND FEED OPERATIONS

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The total combined fugitive particulate matter emissions from Source P119 shall not exceed 17.19 tons in any twelve consecutive month period and the total combined fugitive particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM-10, shall not exceed 9.09 tons in any twelve consecutive month period.

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.672]**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants
Standard for particulate matter.**

Source P119 shall not emit fugitive emissions greater than 10 percent opacity as specified in 40 CFR 60.672(b).

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

[Authority for this permit condition is also derived from 40 CFR Section 64.9 as well as 25 Pa. Code Section 127.511]

The permittee shall generate and keep daily records of the required monitoring data and information including the supporting information, as specified in Condition #024 of Section B, General Title V Requirements, to verify compliance with the differential pressure and visible emission parameters under Source ID P117, herein. The records shall also include the information as required in 40 CFR Section 64.9(b), (relating to General Recordkeeping Requirements).

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants
Reporting and recordkeeping.**

The permittee shall comply with all of the applicable recordkeeping requirements specified in 40 CFR 60.676.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.**

005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]
Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants
Reporting and recordkeeping.

The permittee shall comply with all of the applicable reporting requirements specified in 40 CFR 60.676.

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The waste reclaim hopper fabric collector (C117) shall incorporate a dust collection point at the discharge of the waste reclaim hopper (Source P117) onto the 3' x 1000' partially enclosed conveyor incorporated in Source P119.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P119 is a gypsum handling, processing and storage operation consisting of the following equipment:

- (1) 12' x 3300' partially enclosed conveyor;
- (2) synthetic gypsum hopper;
- (3) feeder and chute system;
- (4) 3' x 1000' partially enclosed conveyor;
- (5) 3-sided roofed rock shed;

and associated storage pile(s).

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

All conveyors incorporated in Source P119 shall be fully enclosed or equipped with 3-sided covers (top and two sides) except for those conveyors or portions of conveyors which are located inside a fully enclosed building, in which case enclosures or covers are not required.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

All material stockpiles and all associated material handling activities (other than those occurring inside of a fully enclosed building) shall be contained inside the existing 3-sided roofed rock shed and/or the new dome structure that was installed as part of the RFD approval dated February 21, 2019.

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.670]

Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants**Applicability and designation of affected facility.**

Source P119 is subject to Subpart 000 of the federal Standards of Performance for New Stationary Sources, 40 CFR 60.670-60.676, and shall comply with all applicable requirements contained therein except that fugitive visible emissions (opacity) testing need not be performed unless specifically requested by the Department of Environmental Protection.

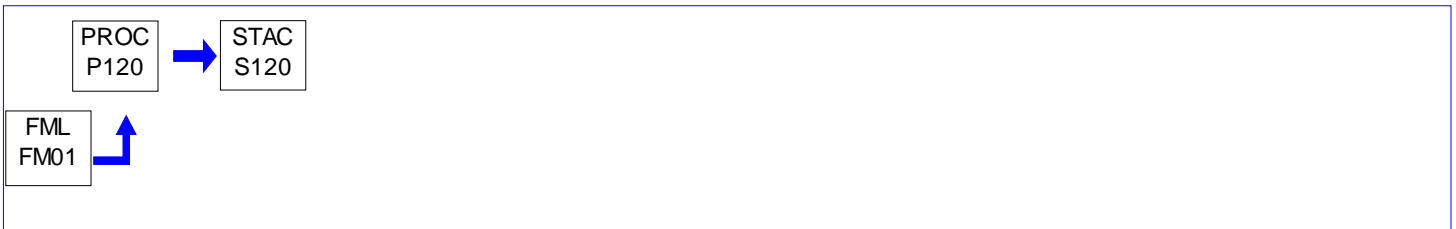
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P120

Source Name: PAPER EDGE HEATER AND GLUE

Source Capacity/Throughput: 6.000 MMBTU/HR

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]
 [Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.13]

The particulate matter (including particulate matter with an aerodynamic diameter of 10 microns or less, also known as PM10) emissions in the exhaust of Source P120 shall not exceed 0.01 pounds per million Btu of heat input and 0.26 tons in any twelve consecutive month period.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The nitrogen oxides emissions, expressed as nitrogen dioxide, from the exhaust of Source P120 shall not exceed 0.1 pounds per million Btu of heat input and 2.63 tons in any twelve consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The carbon monoxide emissions from the exhaust of Source P120 shall not exceed 0.3 pounds per million Btu of heat input and 7.88 tons in any twelve consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]
 [Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.21]

The sulfur oxides emissions, expressed as sulfur dioxide, from the exhaust of Source P120 shall not exceed 0.0006 pounds per million Btu of heat input and 0.02 tons in any twelve consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The volatile organic compound emissions from the exhaust of Source P120 shall not exceed 0.02 pounds per million Btu of heat input and 0.53 tons in any twelve consecutive month period.

**SECTION D. Source Level Requirements****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The hazardous air pollutant emissions from the exhaust of Source P120 shall not exceed 0.05 tons in any twelve consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The total combined volatile organic compound emissions from the glues used in dunnage machine (Source ID P116) as well as for board paper (Source ID P120) shall not exceed 0.72 tons in any twelve consecutive month period.

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

The total combined hazardous air pollutants emissions from the glues used in dunnage machine (Source ID P116) as well as for board paper (Source ID P120) shall not exceed 0.2 ton in any twelve consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall generate and keep monthly records of the following information to verify compliance with the VOC and HAP emission restrictions:

- (1) The identity, quantity (pounds), VOC content (% by weight), and HAP content (% by weight), of each glue used at the facility in any calendar month and 12 consecutive month period, as well as the supporting information and monitoring data; and
- (2) The total combined VOC and HAP emissions from the glues on a monthly and 12-month rolling basis, including the intermediate calculations.

V. REPORTING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall submit semi-annual reports to the Department listing the following information:

- (1) The identity, quantity (pounds), VOC content (% by weight), and HAP content (% by weight), of each glue used at the facility in any calendar month and 12 consecutive month period, as well as the supporting information and monitoring data; and

**SECTION D. Source Level Requirements**

(2) The total combined VOC and HAP emissions from the glues on a monthly and 12-month rolling basis, including the intermediate calculations.

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 of each year (for the immediately-preceding January through June six month period) and March 1 of each year (for the immediately-preceding July through December six month period).

VI. WORK PRACTICE REQUIREMENTS.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P120 shall be operated using good combustion and maintenance practices which shall consist of the installation, maintenance and operation of the burners in accordance with the manufacturer's specifications.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

All containers of glues shall be kept closed except when removing material from, or placing material into, the containers.

VII. ADDITIONAL REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P120 is a paper edge heater consisting of six Maxon Corporation 5' VFH Linoflame natural gas-fired burners. The combined heat input of these burners shall not exceed 6.0 million Btu per hour.

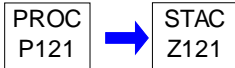
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P121

Source Name: DIESEL FUEL STORAGE TANK

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source P121 shall only be used to store diesel fuel.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of the materials stored in Source P121. All records generated pursuant to this condition shall be retained for at least 5 years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P121 consists of a 2,000 gallon aboveground diesel fuel tank.

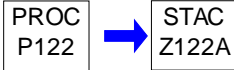
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P122

Source Name: GYPSUM RAILCAR & TRUCK UNLOADING OPERATIONS

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.672]****Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants
Standard for particulate matter.**

Source P122 shall not emit fugitive emissions greater than 10 percent opacity as specified in 40 CFR 60.672(b).

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

[Additional authority for this plan approval condition is derived from 25 Pa. Code §§127.1 and 127.12]

(a) No more than 1,100,000 tons of synthetic gypsum shall be delivered to the facility by railcar or truck in any 12 consecutive month period. Any portion of this 1,100,000 tons may be delivered by railcar and any portion may be delivered by truck.

(b) If the facility becomes a major facility solely by virtue of relaxation in an enforceable limitation which was established after August 7, 1980, on the capacity of the facility to emit PM-10 emissions, the requirements of 25 Pa. Code Chapter 127 Subchapter D (related to Prevention of Significant Deterioration of Air Quality) shall apply as though the construction authorized in Plan Approval No: 47-309-001A had not yet commenced.

[Authority for paragraph (b) of this permit condition is derived from 40 CFR Section 52.21(r)(4)]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall keep records, in a logbook or electronically, that demonstrate conformance with the permit condition that requires daily visual inspections on the source, as specified under monitoring requirements in Section C, including the date and time, the operating conditions and description of the visual background as existing at the time of each inspection, the results of the inspections, the initials of plant personnel, and description and timing of the corrective action(s) that were taken to restore operation of the collector to normal condition, as applicable, based on the visible emission observation.

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

[Authority for this permit condition is also derived from 25 Pa. Code Section 127.511]

The permittee shall generate and keep records of the quantity (tons) of synthetic gypsum delivered to the facility by railcar and truck on a monthly and 12-month rolling basis to verify compliance with the Source ID P122 throughput restriction, as well as the supporting monitoring data.

005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]**Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants Reporting and recordkeeping.**

The permittee shall comply with all applicable recordkeeping requirements specified in 40 CFR 60.676.

V. REPORTING REQUIREMENTS.**# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]****Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants Reporting and recordkeeping.**

The permittee shall comply with all applicable reporting requirements specified in 40 CFR 60.676.

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

[Additional authority for this plan approval condition is derived from 25 Pa. Code §§127.1 and 127.12]

Gypsum shall only be stockpiled in the 3-sided roofed rock shed including the dome structure.

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

[Additional authority for this plan approval condition is derived from 25 Pa. Code §§127.1 and 127.12]

All trucks delivering gypsum to the facility shall be unloaded inside the 3-sided roofed rock shed (including the dome structure) or the railcar unloading building. The railcar entrance and exit as well as any access door except for the one used for unloading shall be closed when truck unloading is occurring.

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

[Additional authority for this plan approval condition is derived from 25 Pa. Code §§127.1 and 127.12]

All railcars delivering synthetic gypsum to the facility shall be unloaded inside a railcar unloading building which shall be an enclosed structure except for the railcar entrance and exit and any access doors which may exist. All access doors shall be closed when railcar unloading is occurring.

VII. ADDITIONAL REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this plan approval condition is derived from 25 Pa. Code §§127.1 and 127.12]

The permittee shall establish, and enforce, a requirement that all trucks entering or exiting the facility loaded with synthetic gypsum shall be tarped or otherwise covered. This requirement shall be posted in highly visible locations along facility roadways.

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

[Additional authority for this plan approval condition is derived from 25 Pa. Code §§127.1 and 127.12]

**SECTION D. Source Level Requirements**

The conveyor incorporated in the railcar unloading operation shall be fully enclosed or equipped with a 3-sided cover (top and two sides) except for those portions of the conveyor which are located underground or inside of an enclosed building, in which case an enclosure or cover is not required.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source P122 consists of synthetic gypsum railcar and truck unloading operations.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.670]

Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants

Applicability and designation of affected facility.

Source P122 is subject to Subpart OOO of the federal Standards of Performance for New Stationary Sources, 40 CFR 60.670-60.676, and shall comply with all applicable requirements contained therein except that visible fugitive emissions (opacity) testing need not be performed unless specifically requested by the Department of Environmental Protection.

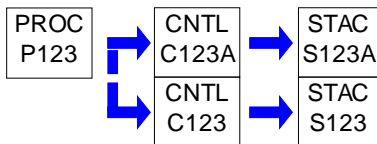
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**SECTION D. Source Level Requirements**

Source ID: P123

Source Name: BULK STORAGE BIN AND HOPPER

Source Capacity/Throughput:

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

(a) The stack concentrations of filterable particulate matter emissions, as well as PM-10 and PM2.5, in the exhaust of C123 associated with Source P123 shall not be in excess of 0.008 grains per dry standard cubic foot of effluent gas volume.

(b) The stack concentrations of filterable particulate matter emissions, as well as PM-10 and PM2.5, in the exhaust of C123A associated with Source P123 shall not be in excess of 0.009 grains per dry standard cubic foot of effluent gas volume.

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code section 123.13]

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Emissions of filterable particulate matter, as well as PM-10 and PM2.5, from the bulk storage bin associated with Source ID P123 shall be controlled by a dust collector (ID C123). Additionally, the total emissions of these pollutants shall not exceed 0.48 tons in any twelve consecutive month period.

Emissions of filterable particulate matter, as well as PM-10 and PM2.5, from the bulk hopper associated with Source ID P123 shall be controlled by a fabric filter receiver (ID C123A). Additionally, the total emissions of these pollutants shall not exceed 0.27 tons in any twelve consecutive month period.

II. TESTING REQUIREMENTS.

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

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

[Authority is also derived from 25 Pa. Code section 127.511]

(a) While Source ID P123 is in operation:

1) the permittee shall continuously monitor the differential pressure across the bags or filters of ID C123 to verify that the differential pressure is within 0.35 through 4.0 inches of water; and

2) the permittee shall continuously monitor the differential pressure across the bags or filters of ID C123A to verify that the differential pressure is within 1.0 through 4.0 inches of water.

(b) If a valid differential pressure reading is detected to be outside any of the above limits, an alarm which alerts the permittee shall be triggered immediately.

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

[Authority is also derived from 25 Pa. Code section 127.511]

(a) While Source ID P123 is in operation:

- 1) the permittee shall conduct routine inspections that consist of a visual observation of the ID C123 stack (S123) for a period of 1 minute, at least, to detect for the presence of visible emissions.
- 2) the permittee shall conduct routine inspections that consist of a visual observation of the ID C123A stack (S123A) for a period of 1 minute, at least, to detect for the presence of visible emissions.

(b) The routine inspections, as required above, shall also be conducted in accordance with the following:

- 1) Once per operating day during daylight hours;
- 2) At location(s) at least 15 feet but not more than 1320 feet from the point of emission with the sun generally at the observers back and where contrasting background(s) are present to the extent controllable by the observer; and
- 3) Only by personnel trained to have knowledge and understanding of the effects of background contrast, ambient lighting, and where the personnel should stand to conduct the observations.

IV. RECORDKEEPING REQUIREMENTS.**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code section 127.511]

The permittee shall maintain daily records pertaining to the ID C123 and C123 control device performance indicators, daily average differential pressures (based on valid data) and routine inspections for visible emissions, in accordance with condition #024 in section B (General Title V Requirements), herein.

- 1) The records for daily average differential pressure shall also include a description of the corrective actions taken by the permittee in response to a differential pressure alarm.
- 2) The records for routine inspections shall also include the sky conditions as existing at the time of stack observation for visible emissions.

V. REPORTING REQUIREMENTS.

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

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

A sufficient quantity of spare fabric filters or bags for C123 and for C123A shall be kept on hand at all times in order to immediately replace any worn or damaged bags due to deterioration.

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

The permittee shall not operate the bulk storage bin associated with Source ID P123, if C123 is inoperable.

The permittee shall not operate the bulk hopper associated with Source ID P123, if C123A is inoperable.

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The air compressor(s) supplying the compressed air to C123 and C123A shall be equipped with a functional air dryer and oil trap.

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

Source ID P123 consists of a 450 ton bulk storage bin as well as a 30 cubic foot bulk hopper which are used for storing and feeding an additive raw material for the wallboard manufacturing process. The storage bin was installed under a Request for Determination approval from March 2013. The hopper was installed under a Request for Determination approval from April 2010.

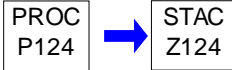
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P124

Source Name: WALLBOARD INK

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The total combined VOC emissions and the total combined HAP emissions from the use of inks shall not exceed 3.74 tons and zero tons, respectively, in any twelve consecutive month period.

Throughput Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

In any twelve consecutive month period, the permittee shall use no inks containing more than 7.74 pounds of VOCs per gallon, no more than 490 gallons of ink containing more than 2.0 pounds of VOCs per gallon, and no more than 2160 gallons of ink containing 2.0 or less pounds of VOCs per gallon.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall generate and keep monthly records of the following information to verify compliance with the emission and throughput restrictions:

(1) The identity, quantity (gallons), VOC content (pounds per gallon), and HAP content (pounds per gallon), of each ink used in any calendar month and 12 consecutive month period, as well as the supporting information and monitoring data;

(2) The monthly and 12-month rolling total VOC and HAP emissions from the use of inks, as well as the supporting calculations;

(b) All records generated pursuant to this condition shall be retained for at least five years and shall be made available to the Department upon request.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall submit semi-annual reports to the Department listing the following information:

(1) The identity, quantity (gallons), VOC content (pounds per gallon), and HAP content (pounds per gallon), of each ink used in any calendar month and 12 consecutive month period;

(2) The monthly and 12-month rolling total VOC and HAP emissions from the use of inks;

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 of each year (for the immediately-preceding January through June six month period) and March 1 of each year (for the immediately-preceding July through December six month period).

VI. WORK PRACTICE REQUIREMENTS.**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

All containers of inks shall be kept closed except when removing material from, or placing material into, the containers.

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

Source ID P124 encompasses the use of ink(s) for wallboard production.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P201

Source Name: FIRE PUMP EMERGENCY ENGINE

Source Capacity/Throughput:

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

The permittee shall comply with the applicable emission standards pertaining to Source ID P201, as specified in 40 CFR Section 60.4205. According to 40 CFR 60.4205, the NMHC + NO_x emissions shall not exceed 3.0 g/hp-hr and the PM emissions shall not exceed 0.15 g/hp-hr.

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

The permittee shall comply with the applicable fuel requirements pertaining to the emergency engine associated with Source ID P201, as specified in 40 CFR Section 60.4207. According to 40 CFR 60.4207, the diesel fuel used to operate Source ID P201 shall meet the follow per-gallon standards.

(1) Sulfur content.

(i) 15 ppm maximum for NR diesel fuel.

(2) Cetane index or aromatic content, as follows:

(i) A minimum cetane index of 40; or

(ii) A maximum aromatic content of 35 volume percent.

Operation Hours Restriction(s).**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall comply with the applicable compliance requirements including the operation hours restrictions pertaining to the emergency engine associated with Source ID P201, as specified in 40 CFR Section 60.4211. The operation hours of Source ID P201 for readiness and maintenance testing and other non-emergency situation as provided in 40 CFR Section 60.4211(f) is limited to 100 hours in any calendar year.

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

Source ID P201 shall not be operated in excess of 500 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall comply with the applicable testing requirements pertaining to the emergency engine associated with Source ID P201, as specified in 40 CFR Section 60.4212.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

**SECTION D. Source Level Requirements**

The permittee shall operate a non-resettable hour meter on the emergency engine associated with Source ID P201, to continuously monitor engine hours of operation

IV. RECORDKEEPING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall keep record of the hours of operation of the emergency engine associated with Source ID P201, based on the non-resettable hour meter, to demonstrate conformance with the operation hours restrictions as specified above.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall sample all deliveries of diesel fuel for Source ID P201 and perform sampling analysis in accordance with the provisions of 25 Pa. Code Chapter 139, to determine the sulfur content, in units of ppm by weight, and verify compliance with the applicable fuel requirements.

(b) In lieu of performing sampling and analysis on each of the received deliveries, the permittee shall obtain a copy of the fuel shipment analysis report from the fuel supplier(s), to verify compliance with the applicable fuel requirements. The analysis report shall be signed and certified by the responsible individual(s) representing the fuel supplier(s). The certification shall be as follows, "based on information and belief formed after reasonable inquiry, the results contained in the fuel shipment analysis report are true, accurate and complete."

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall comply with the applicable recordkeeping requirements pertaining to the emergency engine associated with Source ID P201, as specified in 40 CFR Section 60.4214.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall comply with the applicable notification requirements pertaining to the emergency engine associated with Source ID P201 and keep record of the notifications, as specified in 40 CFR Section 60.4214.

V. REPORTING REQUIREMENTS.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall comply with the applicable reporting requirements pertaining to the emergency engine associated with Source ID P201, as specified in 40 CFR Section 60.4214.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall comply with the applicable notification requirements pertaining to the emergency engine associated with Source ID P201, as specified in 40 CFR Section 60.4214.

VI. WORK PRACTICE REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The emergency engine associated with Source ID P201 is rated at 300 hp and its primary purpose of operation is to provide power to fire pump(s) during emergency situations. The emergency engine is also operated for the purposes of readiness testing and maintenance.

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

The emergency engine associated with Source ID P201 was installed in 2011 and is subject to the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines as codified in 40 CFR Part 60 Subpart IIII. The permittee shall comply with all applicable requirements pertaining to Source ID P201, as specified in 40 CFR Sections 60.4200 through 60.4219.

***** Permit Shield in Effect. *****



SECTION E. Source Group Restrictions.

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Title V facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.

**SECTION H. Miscellaneous.**

The following air contaminant sources are considered to the Department to be insignificant with regards to air contaminant emissions and are determined to be exempt from permitting requirements. However, this determination does not exempt the sources from compliance with all applicable State and Federal regulations, including all applicable regulations specified in 25 Pa. Code Chapters 121-145.

An unconnected dust collector sized at approximately 1,200 cfm.



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