



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: March 1, 2024 Effective Date: September 22, 2026
Revision Date: September 22, 2026 Expiration Date: May 31, 2027
Revision Type: Extension

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 construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval 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 plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

Plan Approval No. 47-00014E

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 COWASHINGTONVILLE 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

Plan Approval Contact Person

Name: MASON HAMILTON
Title: MILL & ENGINEERING MGR
Phone: (570) 284 - 7259 Email: MHamilton@usg.com

[Signature] _____
MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION



Plan Approval Description

The plan approval authorizes the construction of the natural gypsum processing project's new sources and modifications as further described herein and based on the facility's plan approval application submitted to the Department, including the additional info dated October 11, 2023.



SECTION A. Table of Contents

Section A. Facility/Source Identification

Table of Contents
Plan Approval Inventory List

Section B. General Plan Approval Requirements

- #001 Definitions
- #002 Future Adoption of Requirements
- #003 Plan Approval Temporary Operation
- #004 Content of Applications
- #005 Public Records and Confidential Information
- #006 Plan Approval Terms and Conditions
- #007 Transfer of Plan Approvals
- #008 Inspection and Entry
- #009 Plan Approval Changes for Cause
- #010 Circumvention
- #011 Submissions
- #012 Risk Management
- #013 Prohibition of Air Pollution
- #014 Compliance Requirement

Section C. Site Level Plan Approval Requirements

- C-I: Restrictions
- C-II: Testing Requirements
- C-III: Monitoring Requirements
- C-IV: Recordkeeping Requirements
- C-V: Reporting Requirements
- C-VI: Work Practice Standards
- C-VII: Additional Requirements
- C-VIII: Compliance Certification
- C-IX: Compliance Schedule

Section D. Source Level Plan Approval Requirements

- D-I: Restrictions
- D-II: Testing Requirements
- D-III: Monitoring Requirements
- D-IV: Recordkeeping Requirements
- D-V: Reporting Requirements
- D-VI: Work Practice Standards
- D-VII: Additional Requirements

Note: These same sub-sections are repeated for each source!

Section E. Source Group Restrictions

- E-I: Restrictions
- E-II: Testing Requirements
- E-III: Monitoring Requirements
- E-IV: Recordkeeping Requirements
- E-V: Reporting Requirements
- E-VI: Work Practice Standards
- E-VII: Additional Requirements

Section F. Alternative Operating Scenario(s)

- F-I: Restrictions
- F-II: Testing Requirements



SECTION A. Table of Contents

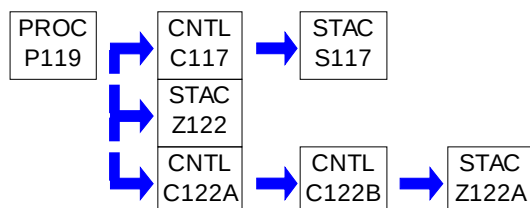
F-III: Monitoring Requirements
F-IV: Recordkeeping Requirements
F-V: Reporting Requirements
F-VI: Work Practice Standards
F-VII: Additional Requirements

Section G. Emission Restriction Summary

Section H. Miscellaneous

**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
P101	DRYER MILL 1 & HAMMER MILL 1	35.000 MMBTU/HR	
P102	DRYER MILL 2 & HAMMER MILL 2	35.000 MMBTU/HR	
P117	WASTE RECLAIM HOPPER		
P119	GYPSUM STORAGE, HANDLING AND FEED OPERATIONS		
P119A	NATURAL GYPSUM/SECONDARY CRUSHER OPERATION	200.000 Tons/HR	NATURAL GYPSUM ROCK
P122	GYPSUM RAILCAR & TRUCK UNLOADING OPERATIONS		
P301	NATURAL GYPSUM PREHEATER/ROLLER MILL A	58.000 Tons/HR 16.677 MCF/HR	NATURAL GYPSUM Natural Gas
P302	NATURAL GYPSUM PREHEATER/ROLLER MILL B	58.000 Tons/HR 16.667 MCF/HR	NATURAL GYPSUM Natural Gas
C101	DRYER MILL 1 & HAMMER MILL 1 FABRIC COLLECTOR		
C102	DRYER MILL 2 & HAMMER MILL 2 FABRIC COLLECTOR		
C117	WASTE RECLAIM HOPPER FABRIC COLLECTOR		
C119A	CRUSHER DUST COLLECTOR		
C122A	BUILDING/ENCLOSURE		
C122B	NATURAL GYPSUM UNLOADING DUST SUPPRESSION SYSTEMS		
C301	ROLLER MILL A SYSTEM DUST COLLECTOR		
C302	ROLLER MILL B SYSTEM DUST COLLECTOR		
C303	ROLLER MILL A FEED BIN VENT FILTER		
C304	ROLLER MILL B FEED BIN VENT FILTER		
C305	ROLLER MILL A SYSTEM SCREW CONVEYOR VENT FILTER		
C306	ROLLER MILL B SYSTEM SCREW CONVEYOR VENT FILTER		
FM01	NATURAL GAS		
S117	WASTE RECLAIM HOPPER STACK		
S301	ROLLER MILL A SYSTEM DUST COLLECTOR EXHAUST STACK		
S302	ROLLER MILL B SYSTEM DUST COLLECTOR EXHAUST STACK		
Z122	FUGITIVE EMISSIONS		
Z122A	FUGITIVE EMISSIONS		

PERMIT MAPS



PERMIT MAPS

PROC
P119A → CNTL
C117 → STAC
S117

PROC
P122 → STAC
Z122
CNTL
C122A → CNTL
C122B → STAC
Z122A

PROC
P301 → CNTL
C301 → STAC
S301
FML
FM01 → CNTL
C303
CNTL
C305

PROC
P302 → CNTL
C302 → STAC
S302
FML
FM01 → CNTL
C304
CNTL
C306

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

Words and terms that are not otherwise defined in this plan approval 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 § 127.12b (a) (b)]**Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

#003 [25 Pa. Code § 127.12b]**Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 30 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

#004 [25 Pa. Code § 127.12(a) (10)]**Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

#005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]**Public Records and Confidential Information**

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the

**SECTION B. General Plan Approval Requirements**

competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

#006 [25 Pa. Code § 127.12b]**Plan Approval Terms and Conditions**

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

#007 [25 Pa. Code § 127.32]**Transfer of Plan Approvals**

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

#008 [25 Pa. Code § 127.12(a)(4) & 35 P.S. § 4008 & § 114 of the CAA]**Inspection and Entry**

(a) 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.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

**SECTION B. General Plan Approval Requirements**

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

#009 [25 Pa. Code 127.13a]**Plan Approval Changes for Cause**

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

(a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.

(b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(c) The permittee fails to submit a report required by this plan approval.

(d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

#010 [25 Pa. Code §§ 121.9 & 127.216]**Circumvention**

(a) The permittee, 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 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 plan approval, 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.

#011 [25 Pa. Code § 127.12c]**Submissions**

Reports, test data, monitoring data, notifications shall be submitted to the:

Regional Air Program Manager

PA Department of Environmental Protection

(At the address given on the plan approval transmittal letter or otherwise notified)

#012 [25 Pa. Code § 127.12(a)(9) & 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 facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:

**SECTION B. General Plan Approval Requirements**

- (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 the Environmental Protection Agency 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 plan approval 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.

#013 [25 Pa. Code § 121.7]**Prohibition of Air Pollution**

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

#014 [25 Pa. Code § 127.25]**Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.



SECTION C. Site Level Plan Approval Requirements

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

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) Open burning operations.
- (7) 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.

002 [25 Pa. Code §123.2]

Fugitive particulate matter

No person may permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Condition #001(1)-(7) above if the emissions are visible at the point the emissions pass outside the person's property.

Throughput Restriction(s).

003 [25 Pa. Code §127.12b]

Plan approval 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 and natural gypsum on a combined sum total basis shall be processed in any twelve consecutive month period.

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

(a) - (c) Reserved.

(d) No more than 1,100,000 tons of synthetic gypsum and natural gypsum on a combined sum total basis shall be delivered in any twelve consecutive month period.

(e) The permittee shall not receive any waste gypsum on site. 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.

Paragraphs (d) and (e) of this condition will supersede #003 within section C of TVOP 47-00014 upon project startup and following the cessation of synthetic gypsum materials delivered by the existing synthetic gypsum conveyor.

II. TESTING REQUIREMENTS.

005 [25 Pa. Code §123.43]

Measuring techniques

Visible emissions may be measured using either of the following:

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

**SECTION C. Site Level Plan Approval Requirements****# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) Pursuant to 25 Pa. Code § 139.3, unless otherwise specified herein, 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.

(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 PADEP 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.

007 [25 Pa. Code §139.1]**Sampling facilities.**

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

008 [25 Pa. Code §139.11]**General requirements.**

(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

**SECTION C. Site Level Plan Approval Requirements**

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.

III. MONITORING REQUIREMENTS.**# 009 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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

The permittee shall monitor the quantities and compositions of all synthetic and natural gypsum materials as delivered and the quantities of all synthetic and natural gypsum materials as processed and shall generate monthly records as required under the recordkeeping requirements below in order to verify compliance with the throughput restrictions herein.

IV. RECORDKEEPING REQUIREMENTS.**# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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

(a) The permittee shall maintain and make available, upon request by the Department, monthly records of the total combined amounts of synthetic and natural gypsum materials delivered and the total combined amounts of synthetic and natural gypsum materials processed, including the calendar month and 12-month rolling sum totals as applicable upon project startup to verify compliance with the throughput restrictions herein, along with the supporting monitoring data other information as required pursuant to 25 Pa. Code section 127.511.

(b) In addition, the monthly records shall be also including the total quantities (tons) and type of each of the gypsum materials as delivered by trucks to Source ID P119 herein, the total quantities (tons) and type of each of the gypsum materials as delivered by trucks associated with Source ID P122 herein, and the total quantities (tons) and type of each of the gypsum materials as delivered by railcars associated with Source ID P122 herein.

011 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

In addition to the monthly records associated with the fuel usages for Source IDs P101, P102, P301 and P302, the permittee shall maintain and make available, upon request by the Department, monthly records of the total quantity (scf) of natural gas consumed by the facility on a 12-month rolling sum total basis.

V. REPORTING REQUIREMENTS.**# 012 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to 40 CFR Sections 60.4 and 63.13, the submission of all requests, reports, applications, submittals, and other communications as required within any the applicable requirements under 40 CFR Parts 60, subpart OOO shall be submitted to both the U.S. Environmental Protection Agency and the Department. The US EPA copies may be sent to the address below unless otherwise required to be submitted electronically.

**SECTION C. Site Level Plan Approval Requirements**

US EPA Region III, Director, Air Protection Division, Mail Code 3AP00, 1650 Arch Street, Philadelphia, PA 19103–2029.

013 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

(b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.

(c) The report shall describe the following:

1. name, permit or authorization number, and location of the facility,
2. nature and cause of the malfunction, emergency or incident,
3. date and time when the malfunction, emergency or incident was first observed,
4. expected duration of excess emissions,
5. estimated rate of emissions,
6. corrective actions or preventative measures taken.

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

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

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

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

014 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

(a) The permittee shall submit semi-annual reports of required monitoring on a per calendar month basis including the total quantities (tons) and type of each of the gypsum materials as delivered by trucks to Source ID P119 herein, the total quantities (tons) and type of each of the gypsum materials as delivered by trucks associated with Source ID P122 herein, and the total quantities (tons) and type of each of the gypsum materials as delivered by railcars associated with Source ID P122 herein as well as the combined quantities (tons) of natural and synthetic gypsum materials delivered and the

**SECTION C. Site Level Plan Approval Requirements**

combined quantities (tons) of natural and synthetic gypsum materials processed including the calendar month and 12-month rolling sum totals as applicable upon project startup to verify compliance.

(b) 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).

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

The permittee shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions 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.

016 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

(a) All plant roadways for synthetic and natural gypsum deliveries shall be paved and properly maintained as to prevent particulate or dust from becoming airborne in accordance with 25 Pa. Code sections 123.1 and 123.2.

(b) An operable vacuum-type road sweeper shall be maintained on site and shall be used to remove dust from roadways, as necessary. The use of non-vacuum road sweepers shall be prohibited.

(c) In addition, a water truck shall also be used as necessary during periods when site conditions warrant such a measure for the control or prevention of road dust and fugitive particulate matter due to truck traffic.

VII. ADDITIONAL REQUIREMENTS.**# 017 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The issuance of an operating permit for new or modified sources authorized herein, including Source IDs P119, P119A P122, P301 and P302 herein, is contingent upon the sources including any required controls being installed and operated in accordance with all plan approval info specifications and conditions herein as well as completion of evaluation of the necessary compliance demonstrations as required in accordance with 25 Pa. Code Chapters 121 through 145, Article III of the Rules and Regulations of the Department of Environmental Protection.

(b) If based on the compliance demonstration as required herein it is determined that the new sources and other changes authorized herein result in the emission of fugitive air contaminants in excess of the limitations specified in 25 Pa. Code Sections 123.1 and 123.2, or the other air contaminant emission sources are excess of the limitations under Article III of the Rules and Regulations of the Department of Environmental Protection, 25 Pa. Code Chapters 121 through 145, the permittee shall implement corrective actions and/or preventative measures as necessary to verify compliance with all limitations applicable to the source in accordance with the applicable requirements derived from the above rules and regulations.

(c) If there is a conflict between a permit term or condition the more stringent requirement would apply by default.

**SECTION C. Site Level Plan Approval Requirements****# 018 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to 25 Pa. Code section 127.12, the permittee shall submit to the Department additional info including the proposed dust collector installations' make and model and other plan approval application info from section C.5 of the plan approval application (2700-PM-AQ00023, rev. 6/2004).

The info should be submitted no later than 15 days after being made available to the permittee and shall verify that the final air flow other specifications are not higher than the ones submitted in the original application that were used to establish compliance with all applicable air quality regulatory requirements.

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: P101

Source Name: DRYER MILL 1 & HAMMER MILL 1

Source Capacity/Throughput:

35.000 MMBTU/HR

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

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

No person may authorize the sum total aggregate of natural gas consumed by Source IDs P101, P102, P301 and P302 in excess of 613,200 MMBtu in any twelve consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

The permittee shall monitor the amounts of natural gas consumed to operate Source IDs P101, P102, P301 and P302 authorized herein along with the other parameters as necessary to derive total monthly heat input throughput, expressed as MMBtu/month, and shall generate monthly records as required below in order to verify compliance with the fuel heat input throughput restriction herein.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

The permittee shall maintain and make available, upon request by the Department, records of the monthly combined sum total amounts of fuel (natural gas) used by Source IDs P101, P102, P301 and P302 authorized herein, expressed as MMBtu/month, including the calendar month and the 12-month rolling sum totals as applicable upon project startup and the supporting monitoring data other info as required in accordance with 25 Pa. Code section 127.511.

V. REPORTING REQUIREMENTS.

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

(a) The permittee shall submit semi-annual reports of the required monitoring including the monthly combined total fuel usages of Source IDs P101, P102, P301 and P302 as well as the calendar month and 12-month rolling sum totals expressed in units of MMBtu as applicable upon project startup in order to verify compliance with the fuel throughput restriction herein.

(b) 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).



SECTION D. Source Level Plan Approval Requirements

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: P102

Source Name: DRYER MILL 2 & HAMMER MILL 2

Source Capacity/Throughput:

35.000 MMBTU/HR

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

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

No person may authorize the sum total aggregate of natural gas consumed by Source IDs P101, P102, P301 and P302 in excess of 613,200 MMBtu in any twelve consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

The permittee shall monitor the amounts of natural gas consumed to operate Source IDs P101, P102, P301 and P302 authorized herein along with the other parameters as necessary to derive total monthly heat input throughput, expressed as MMBtu/month, and shall generate monthly records as required below in order to verify compliance with the fuel heat input throughput restriction herein.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

The permittee shall maintain and make available, upon request by the Department, records of the monthly combined sum total amounts of fuel (natural gas) used by Source IDs P101, P102, P301 and P302 authorized herein, expressed as MMBtu/month, including the calendar month and the 12-month rolling sum totals as applicable upon project startup and the supporting monitoring data other info as required in accordance with 25 Pa. Code section 127.511.

V. REPORTING REQUIREMENTS.

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

(a) The permittee shall submit semi-annual reports of the required monitoring including the monthly combined total fuel usages of Source IDs P101, P102, P301 and P302 as well as the calendar month and 12-month rolling sum totals expressed in units of MMBtu as applicable upon project startup in order to verify compliance with the fuel throughput restriction herein.

(b) 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).



SECTION D. Source Level Plan Approval Requirements

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: P117

Source Name: WASTE RECLAIM HOPPER

Source Capacity/Throughput:

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.**# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

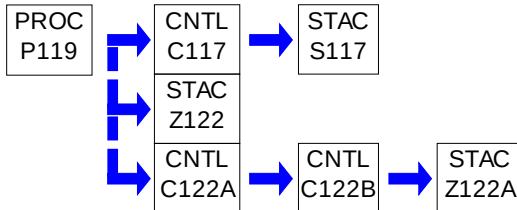
All terms and conditions for Source ID P117/C117 of TVOP 47-00014 remain in effect unless otherwise superseded by a condition as specified herein.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: P119

Source Name: GYPSUM STORAGE, HANDLING AND FEED OPERATIONS

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Additional authority 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, upon project startup, and its total combined fugitive emissions of 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 000 - Standards of Performance for Nonmetallic Mineral Processing Plants****Standard for particulate matter.**

(a) No later than 180 days of project startup, all the affected sources associated with Source ID P119 authorized herein, except for truck dumping as defined by 40 CFR 60.671, shall comply with the 7-percent opacity limitation derived from 40 CFR 60.672. As an alternative, the visible fugitive emissions from any the building openings as defined by 40 CFR 60.671 shall not be exceeding 7 percent opacity.

[Authority for the permit condition below is derived from 25 Pa. Code sections 127.1 and 127.12]

(b) The visible fugitive particulate from truck dumping shall be controlled minimizing the drop heights and using other reasonable but necessary practices and/or measures to comply with the applicable standards under 25 Pa. Code sections 123.1 and 123.2.

Throughput Restriction(s).**# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Additional authority is derived from 25 Pa. Code §§127.1 and 127.12]

(a) No more than 1,100,000 tons of synthetic gypsum and natural gypsum on a combined sum total throughput basis shall be delivered to the facility in any twelve consecutive month period.

(b) Any portion of this 1,100,000 tons/yr gypsum throughput may be delivered by railcars and/or trucks using the modified Source P122 unloading operation. Trucks that cannot be dumped into the P122 hopper may continue to be dumped within the existing dome or rock shed, subject to the terms and conditions herein.

II. TESTING REQUIREMENTS.**# 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.675]****Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants****Test methods and procedures.**

No later than 30 days of startup, a test protocol shall be submitted in accordance with section C herein including any affected sources associated with Source ID P119 herein and their applicable federal testing requirements under 40 CFR Part 60 subpart 000, in addition to the testing requirements in section C herein.

**SECTION D. Source Level Plan Approval Requirements****III. MONITORING REQUIREMENTS.****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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

The permittee shall monitor the amounts of all natural gypsum and synthetic gypsum materials as delivered (directly to Source ID P119 authorized herein) and generate monthly records as required below in order to verify compliance with the throughput restriction herein.

IV. RECORDKEEPING REQUIREMENTS.**# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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

The permittee shall maintain and make available, upon request by the Department, records of the monthly combined sum total amounts of all gypsum materials delivered by truck associated with Source ID P119 herein, expressed in units of tons, including the calendar month and 12-month rolling sum totals as applicable upon startup, as well as the supporting monitoring data other info as required in accordance with 25 Pa. Code section 127.511.

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 the applicable recordkeeping requirements pertaining to Source ID P119, as specified within the provisions of 40 CFR 60.676, including records of each the periodic inspections and results used to verify compliance, in a logbook (written or electronic format), including the other supporting monitoring information such as inspection dates, the operating conditions during each of the periodic inspections, and if necessary, a description of any corrective actions taken as result of the required monitoring. The permittee shall keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 008 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall submit semi-annual reports of the required monitoring including monthly combined sum total amounts of all gypsum materials delivered by truck associated with Source ID P119 herein, expressed in units of tons, including the calendar month and 12-month rolling sum totals as applicable upon startup.

(b) 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).

009 [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.**

(a) The permittee shall comply with all applicable reporting requirements pertaining to Source ID P119, as specified in 40 CFR 60.676. This shall at minimum include the info specified in (b) and (c) of this permit condition

(b) A notification of the actual date of initial startup of each affected facility shall be submitted to the Department in accordance with the other notification requirements in section B herein.

(c) The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in § 60.672 of this subpart, including reports of opacity observations made using Method 9 (40 CFR part 60, appendix A-4) to demonstrate compliance with § 60.672(b), (e) and (f), in accordance with the other testing requirements in section C herein.

**SECTION D. Source Level Plan Approval Requirements****VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.**# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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

Upon startup, in addition to the waste reclaim hopper fabric collector's (Source ID C117) dust collection at the discharge of the waste reclaim hopper onto the 3' x 1000' partially enclosed conveyor that is incorporated into Source ID P119 authorized herein, additional dust collection by Source ID C117 to control the Source ID P119A crusher operation authorized herein shall be installed and operated in accordance with good air pollution control operating practices.

011 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

(a) Source P119 encompasses the wallboard plant's gypsum storage, handling, and feed operations (upon project startup) and the following is a summary of the gypsum storage and feed equipment operation other activities (as authorized upon project startup):

- (1) The existing 12' x 3300' partially enclosed conveyor;
- (2) The existing 3-sided roofed rock shed and dome (including the existing handling conveyors within these structures);
- (3) Stockpiling associated the natural and synthetic gypsum materials within rock shed and/or dome structures.
- (4) The existing conveyor (3' x 1000') and other synthetic gypsum feed equipment (to the existing dryer/hammer mills associated with Source IDs P101&P102);
- (5) The new hopper (to the Source ID P119A crusher operation herein), the crushed natural gypsum material conveyors (3' wide) and feed equipment (to the new preheaters/roller mill systems associated with Source IDs P301 and P302 herein).

(b) The stockpiling and other fugitive sources of natural gypsum shall be controlled using the upstream surfactant spray associated with Source ID C122, minimizing material drop height, enclosure, and any other air pollution control practices or measures as necessary to comply with all applicable air quality regulatory requirements including but not be limited to 25 Pa. Code sections 123.1 and 123.2.

012 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

All conveyors for Source ID 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.

013 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

All gypsum material stockpiles as well as the associated material handling activities other than those occurring inside of a full enclosures/building shall be contained inside the 3-sided roofed rock shed and dome structures associated with Source ID P119.

**SECTION D. Source Level Plan Approval Requirements****# 014 [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 the federal Standards of Performance for New Stationary Sources, 40 CFR Part 60, subpart 000. The permittee shall comply with all applicable requirements pertaining to Source ID P119, as specified in 40 CFR sections 60.670 through 60.676.

**SECTION D. Source Level Plan Approval Requirements**

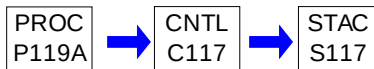
Source ID: P119A

Source Name: NATURAL GYPSUM/SECONDARY CRUSHER OPERATION

Source Capacity/Throughput:

200.000 Tons/HR

NATURAL GYPSUM ROCK

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval 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 the applicable standard of 25 Pa. Code Section 123.13 and the applicable stack emission limit as required within 40 CFR Section 60.672]

(a) The concentration of the total particulate emissions including PM filterable, and PM condensable, if any, into the outdoor atmosphere from the exhaust of the Source ID C117 collector associated with the Source ID P119A crusher operation shall not be in excess of the following limitations:

PM (total): 0.009 grains per dry standard cubic foot of effluent gas volume (gr/dscf);

PM-10: 0.009 gr/dscf; and

PM2.5: 0.009 gr/dscf.

(b) The annual total emissions of PM and PM-10 from the Source ID C117 collector exhaust shall not exceed 0.56 lb/hr and 2.5 tons in any twelve consecutive month period and the annual total emissions of PM2.5 from the Source ID C117 collector exhaust shall not exceed 1.9 tons in any twelve consecutive month period.

Upon project startup the above restrictions supersede the limits in #001 under Source ID P117 of TVOP 47-00014.

(c) In addition, the annual total emissions of PM and PM-10 from the Source ID P119A crusher operation shall not exceed 0.23 tons in any twelve consecutive month period, and its annual total emissions of PM2.5 shall not exceed 0.17 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 Source ID P119A natural gypsum crusher operation as authorized herein shall not emit fugitive particulate that exceeds 7 percent opacity, no later than 180 days of startup, or fugitive emissions from any the building openings to Source ID P119 as defined by 40 CFR 60.671 shall not to exceed 7 percent opacity.

II. TESTING REQUIREMENTS.**# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) No later than 30 days of startup, a test protocol shall be submitted in accordance with section C herein including any affected sources associated with Source IDs C117 and P119A herein and their applicable federal testing requirements under 40 CFR Part 60 subpart OOO, in addition to the testing requirements in section C herein.

(b) No later than 180 days of startup or 90 days after the test protocol is approved by the Department, the permittee shall conduct performance testing on the crusher operation associated with Source ID P119A and on its Source ID C117 fabric collector in accordance with 40 CFR Part 60 subpart OOO using the Department approved methods other procedures for PM-10 to verify compliance while the sources are operating at maximum routine operating conditions.

(c) The permittee shall insure all federal testing requirements contained in the subpart OOO of 40 CFR Part 60 are followed,

**SECTION D. Source Level Plan Approval Requirements**

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.**# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Authority for this condition is also derived from 25 Pa. Code Sections 127.511, and 40 CFR Section 64.6]

(a) The permittee shall continuously monitor and generate records as required below of the differential pressure across the Source ID C117 baghouse fabric filters to verify it is between the maximum and minimum as verified by the Department-approved testing required herein. Manufacturer design specifications may be used in conjunction with the performance test data other info to establish the proposed differential pressure compliance indicators which shall be included within the source test report required in section C herein in addition to the procedures used to establish the minimum and maximum values.

(b) An alarm shall trigger an inspection at once if the differential pressure falls outside the Source ID C117 collector's normal conditions, i.e. above the maximum differential pressure or below the minimum. A daily average that falls outside the maximum and minimum is defined as an excursion for Compliance Assurance Monitoring (CAM) purposes.

005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.674]**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants****Monitoring of operations.**

(c) The permittee shall conduct quarterly 30-minute visible emissions inspections using EPA Method 22 as specified within 40 CFR part 60, appendix A-7 and generate records of the monitoring data other info as required under the recordkeeping requirements below. The inspections shall be conducted while the C117 baghouse is operating. The monitoring is successful if no visible emissions are observed. Otherwise, the permittee shall initiate corrective action no later than 24 hours to return the baghouse to normal operation.

IV. RECORDKEEPING REQUIREMENTS.**# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall maintain and make available, upon request by the Department, records of the required differential pressure monitoring on the Source ID C117 baghouse including daily averages and the supporting monitoring data other information used to verify compliance in accordance with the applicable provisions of 40 CFR section 64.9(b) and from 25 Pa. Code section 127.511.

007 [25 Pa. Code §127.12b]**Plan approval 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 maintain and make available, upon request by the Department, records of supporting documentation to verify that the differential pressure gauges to C117 that are used to establish compliance are properly maintained and continually operated in accordance with 40 CFR Sections 64.7(b) and (c).

008 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall maintain and make available, upon request by the Department, records of the monthly combined sum total amounts of all natural gypsum materials processed by the crusher operation associated with Source ID P119A herein, expressed in units of tons, including the calendar month and 12-month rolling sum totals as applicable upon startup, as well as the supporting monitoring data other info as required in accordance with 25 Pa. Code section 127.511.

009 [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.**

**SECTION D. Source Level Plan Approval Requirements**

(a) The permittee shall comply with the applicable recordkeeping requirements pertaining to Source ID P119A, as specified within the provisions of 40 CFR 60.676(b)(1), including records of each the quarterly Method 22 performed on the Source ID C117 baghouse in a logbook (written or electronic format), including the results, the dates, the initials of operating personnel that conducted monitoring, the operating conditions as existing during the inspections, as well as a description of the corrective actions taken, if necessary, to verify compliance.

(b) The permittee shall keep the logbook onsite, including the supporting monitoring data other info, as required pursuant to 25 Pa. Code section 127.511 and shall make hard or electronic copies (whichever is requested) of the records available to the Department upon request.

These records may be used to verify conformance with #007 Source ID P119 upon project startup unless additional requirements are otherwise required by the Department.

V. REPORTING REQUIREMENTS.**# 010 [25 Pa. Code §127.12b]****Plan approval 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 §127.12b]**Plan approval 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 for Source ID P119A herein, listing:

- (1) The number, duration and cause (including unknown cause, if applicable) of each excursion, based on the required monitoring, and a description of the corrective actions as necessary to restore normal operating conditions; and
- (2) In addition, for the required differential pressure monitoring, the number, duration and cause (including unknown cause, if applicable) of all monitor downtime incidents.

(b) The monthly combined sum total amounts of all natural gypsum materials processed by the crusher operation associated with Source ID P119A herein, expressed in units of tons, including the calendar month and 12-month rolling sum totals as applicable upon startup

(c) The semi-annual reports shall be submitted to the Department by no later than September 1 for the reporting period January 1 through June 30 of the concurrent year and by March 1 for the reporting period July 1 through December 31 of the previous year.

012 [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.**

(a) The permittee shall comply with all applicable reporting requirements pertaining to Source ID P119A, as specified in 40 CFR 60.676.

(b) The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR § 60.672, such as testing for opacity as determined using Method 9 (40 CFR part 60, appendix A-4) to demonstrate compliance, according the testing requirements in section C herein.

VI. WORK PRACTICE REQUIREMENTS.**# 013 [25 Pa. Code §127.12b]****Plan approval 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 the Source ID C117 fabric collector 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.

**SECTION D. Source Level Plan Approval Requirements****VII. ADDITIONAL REQUIREMENTS.****# 014 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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

Source ID P119A authorized herein consists of the natural gypsum crushing operation installed within the rock shed associated with Source ID P119 herein and consisting of the following:

- (1) The natural gypsum crusher feed hopper and belt (36" x 40');
- (2) A secondary roll crusher rated at 200 tph controlled by Source ID C117; and
- (3) 36-inch conveyor(s) used to transport the crushed natural gypsum material to the new material roller mill/dryer associated with Source IDs P301 or P302 herein.

015 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

The emissions by the Source P119A crusher operation shall be controlled by the Source ID P117 fabric collector.

016 [25 Pa. Code §127.12b]**Plan approval 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 the Source ID C117 fabric collector shall be equipped with an air dryer and an oil trap.

017 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

No person may permit operation of the Source ID P119A crusher if the Source ID C117 collector herein is inoperable.

018 [25 Pa. Code §127.12b]**Plan approval 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 P119A, if the implementation of a quality improvement plan (QIP) is required by the Department (in writing).

019 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Source ID P119A is subject to the requirement at 40 CFR Part 64, (relating to Compliance Assurance Monitoring). The permittee shall comply with all of the applicable requirements pertaining to Source ID P119A, as specified in 40 CFR Section 64.1 through 64.10.

020 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

Upon startup, in addition to the waste reclaim hopper fabric collector's (Source ID C117) dust collection at the discharge of the waste reclaim hopper onto the existing 3' x 1000' partially enclosed conveyor that is incorporated into Source ID P119 authorized herein, additional dust collection by Source ID C117 to control the new natural gypsum Source ID P119A crusher operation authorized herein shall be installed and operated in accordance with good air pollution control operating

**SECTION D. Source Level Plan Approval Requirements**

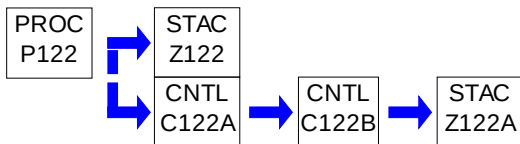
practices.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: P122

Source Name: GYPSUM RAILCAR & TRUCK UNLOADING OPERATIONS

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Additional authority is derived from 25 Pa. Code Sections 127.1 and 127.12]

The total combined fugitive particulate matter emissions from Source P122 shall not exceed 30.49 tons in any twelve consecutive month period, and its total combined fugitive PM-10 emissions as well as PM2.5 shall not exceed 5.98 tons in any twelve consecutive month period.

Throughput Restriction(s).**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Additional authority is derived from 25 Pa. Code §§127.1 and 127.12]

(a) No more than 1,100,000 tons of synthetic gypsum and natural gypsum on a combined sum total throughput basis shall be delivered to the facility in any twelve consecutive month period.

(b) Any portion of this 1,100,000 tons/yr gypsum throughput may be delivered by railcars and/or trucks using the modified Source P122 unloading operation. Trucks that cannot be dumped into the P122 hopper may continue to be dumped within the existing dome or rock shed, subject to the terms and conditions herein.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.**# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall conduct sufficient monitoring on Source ID P122 including reasonable but adequate inspections to verify that the Source ID C122B dust suppression systems are working properly in accordance with manufacturer specifications and good operating practices. At minimum, the inspections shall be completed on a monthly basis or sooner, if necessary, to verify compliance with all applicable air quality regulatory requirements including not limited to 25 Pa. Code sections 123.1 and 123.2. The permittee shall generate records of the inspections and other monitoring info as required under the recordkeeping requirements below.

IV. RECORDKEEPING REQUIREMENTS.**# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall maintain and make available, upon request by the Department, records of the monthly combined sum total amounts of all gypsum materials delivered by truck and railcar associated with Source ID P122 herein, expressed in units of tons, including the calendar month and 12-month rolling sum totals as applicable upon startup, as well as the supporting monitoring data other info as required in accordance with 25 Pa. Code section 127.511.

**SECTION D. Source Level Plan Approval Requirements****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Additional authority is derived from 25 Pa. Code §§127.1 and 127.12]

For each chemical added to any of the sources authorized herein and/or selected for use as part of the operation of control measures to minimize fugitive dust emissions, only chemicals and dust suppressant agents with Occupational Safety and Health Administration (OSHA)-compliant material safety data sheets (MSDS) may be used. In addition, the permittee shall consider and document the site-specific impacts associated with the use of such chemicals and maintain records of the estimated amount used through purchase records or other monitoring info acceptable by the Department.

006 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) The permittee shall maintain and make available, upon request by the Department, records of the recommended periodic inspections performed on the Source ID C122 dust suppression systems in a logbook (written or electronic format), including the results of each one performed by the permittee, the inspection dates, the initials of operating personnel conducted inspections, the operating conditions as existing during each of the inspections, as well as a description of the corrective actions taken, if necessary, to verify compliance with the requirements herein. In addition, a copy of the manufacturer's specifications, recommendations and/or other procedures used to establish compliance shall be kept on-file or available for Department review.

(b) The permittee shall keep the logbook onsite, including the supporting monitoring data other info, as required pursuant to 25 Pa. Code section 127.511 and shall make hard or electronic copies (whichever is requested) of the records available to the Department upon request.

These records may be used to verify conformance with #007 Source ID P119 unless additional requirements are otherwise required in writing by the Department.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Additional authority is derived from 25 Pa. Code §§127.1 and 127.12]

All synthetic gypsum and natural gypsum deliveries shall only be stockpiled within the 3-sided roofed rock shed and/or the enclosed dome associated with Source ID P119 authorized herein.

008 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

[Additional authority is derived from 25 Pa. Code §§127.1 and 127.12]

All railcars and trucks delivering natural gypsum by way of the Source ID P122 railcar building shall be controlled by the dry fogger system and surfactant sprays associated with Source ID C122.

009 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

[Additional authority is derived from 25 Pa. Code §§127.1 and 127.12]

The natural gypsum material being unloaded within the railcar/truck unloading operation associated with Source ID P122 shall be treated with CHEM-LOC 206 (and/or other chemical dust suppressant products approved by the Department in writing to control fugitives).

**SECTION D. Source Level Plan Approval Requirements****VII. ADDITIONAL REQUIREMENTS.****# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Additional authority 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 or natural gypsum shall be tarped or otherwise covered. This requirement shall be posted in highly visible locations along facility roadways.

011 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

[Additional authority is derived from 25 Pa. Code §§127.1 and 127.12]

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 §127.12b]**Plan approval terms and conditions.**

Source P122 authorized herein consists of the synthetic and natural gypsum unloading operations, along with the new dry fogger and spray surfactant controls associated with Source ID C122 used to control the emissions from the new natural gypsum material unloading operation.

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 codified under 40 CFR Part 60. The permittee shall comply with all applicable requirements pertaining to the Source ID P122 gypsum unloading operation, as specified within 40 CFR 60.670 through 60.676, except that visible fugitive emissions (opacity) testing need not be performed unless specifically requested by the Department of Environmental Protection.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: P301

Source Name: NATURAL GYPSUM PREHEATER/ROLLER MILL A

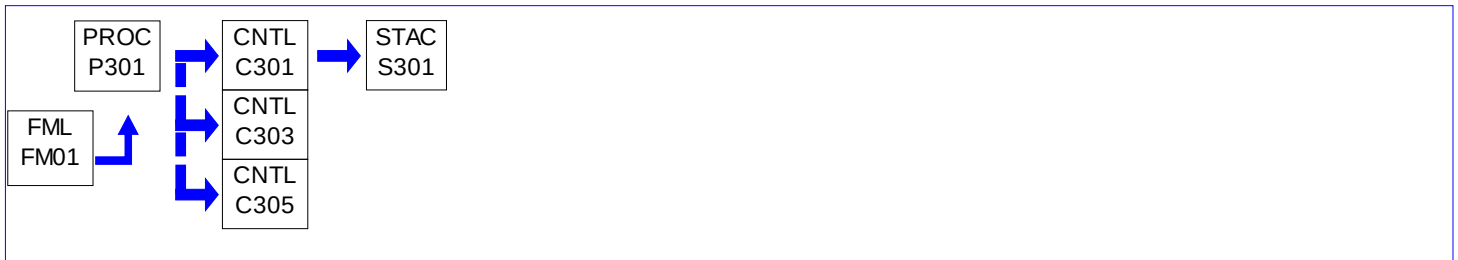
Source Capacity/Throughput:

58.000 Tons/HR

NATURAL GYPSUM

16.677 MCF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

(a) This section applies to sources except those subject to other provisions of this article, with respect to the control of sulfur compound emissions.

(b) No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

002 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

(a) The concentration of the particulate emissions including PM filterable and condensable (total) from within the exhaust of Source ID C301 associated with the Source ID P301 natural gypsum roller mill/dryer operation shall not be in excess of the following limits:

PM (total): 0.009 grain per dry standard cubic foot of effluent gas volume (gr/dscf);

PM-10: 0.009 gr/dscf; and

PM2.5: 0.009 gr/dscf.

[Compliance assures compliance with the emission limits as applicable under 25 Pa. Code Section 123.13 and 40 CFR 60.672]

(b) In addition, the annual total emissions of PM (total), PM-10, and PM2.5 from Source ID P301 shall not exceed 6.76 tons in any twelve consecutive month period.

003 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

(a) The nitrogen oxides (NO_x) emissions, expressed as NO₂, by the Source ID P301 natural gypsum roller mill/dryer operation shall not exceed 0.048 pounds per million Btu of heat input.

(b) In addition, the annual total emissions of NO_x from Source ID 301 shall not exceed 3.57 tons in any twelve consecutive month period.

004 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

**SECTION D. Source Level Plan Approval Requirements**

(a) The carbon monoxide (CO) emissions by the Source ID P301 natural gypsum roller mill/dryer operation shall not exceed 0.20 pounds per million Btu of heat input.

(b) In addition, the annual total emissions of CO from Source ID 301 shall not exceed 14.9 tons in any twelve consecutive month period.

005 [25 Pa. Code §127.12b]
Plan approval terms and conditions.

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

(a) The volatile organic compound (VOC) emissions, expressed as propane, by the Source ID P301 natural gypsum roller mill/dryer operation shall not exceed 0.02 pounds per million Btu of heat input.

(b) In addition, the annual total emissions of VOC from Source ID 301 shall not exceed 1.50 tons in any twelve consecutive month period.

006 [25 Pa. Code §127.12b]
Plan approval terms and conditions.

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

The annual total emissions of HAPs from Source ID 301 shall not exceed 0.2 tons in any twelve consecutive month period.

007 [25 Pa. Code §127.12b]
Plan approval terms and conditions.

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

No person may authorize the sum total aggregate of natural gas consumed by Source IDs P101, P102, P301 and P302 in excess of 613,200 MMBtu in any twelve consecutive month period.

Fuel Restriction(s).

008 [25 Pa. Code §127.12b]
Plan approval terms and conditions.

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

The permittee shall only use natural gas as fuel to operate the burner associated with Source ID P301 authorized herein.

II. TESTING REQUIREMENTS.

009 [25 Pa. Code §127.12b]
Plan approval terms and conditions.

(a) No later than 30 days of startup, a test protocol shall be submitted in accordance with section C herein including any affected sources associated with Source ID P301 herein and their applicable federal testing requirements under 40 CFR Part 60 subpart OOO, in addition to the testing requirements in section C herein.

(b) No later than 180 days of startup or 90 days after the test protocol is approved by the Department, the permittee shall conduct performance testing on the roller mill associated with Source ID P301 and on its Source ID C301 fabric collector in accordance with 40 CFR Part 60 subpart OOO using the Department approved methods other procedures for NO_x, CO, VOC, and PM-10 to verify compliance while the sources are operating at maximum routine operating conditions.

(c) The permittee shall also conduct performance evaluations on the required bag leak detection monitoring associated with Source IDs P301 and C301 in accordance with the site-specific monitoring plan as required below.

(d) The permittee shall insure all federal testing requirements contained in the subpart OOO of 40 CFR Part 60 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.

**SECTION D. Source Level Plan Approval Requirements****III. MONITORING REQUIREMENTS.****# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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

(a) The permittee shall conduct periodic monitoring for NO_x and CO concentrations in the effluent gas on a calendar quarter basis including a minimum of 2 months between each quarterly performance and using other Department approved procedures to verify compliance.

(b) If monitoring fails to verify compliance, the permittee shall submit written or email notification to the Department no later than 3 days after the date and include within the required notice the scheduled date of the Source ID P301 combustion process tune-up. Once corrected, the permittee shall notify the Department with a report describing the findings including the results of the monitoring before and after the tune-up.

011 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

The permittee shall monitor the amounts of natural gas consumed to operate Source IDs P101, P102, P301 and P302 authorized herein along with the other parameters as necessary to derive total monthly heat input throughput, expressed as MMBtu/month, and shall generate monthly records as required below in order to verify compliance with the fuel heat input throughput restriction herein.

012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.674]**Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants****Monitoring of operations.**

[Authority is also derived pursuant to BAT in accordance with 25 Pa. Code sections 127.1 and 127.12]

(a) No later than 180 days of startup, the permittee shall install, operate, and maintain the bag leak detection system for the Source ID P301 baghouse according to paragraphs (a)(1) through (2) of this permit condition in order to establish continuous monitoring to verify compliance with the PM (total), PM-10, and PM2.5 restrictions herein.

(1) The bag leak detection system shall meet the specifications and requirements below.

(i) The bag leak detection system must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 1 milligram per dry standard cubic meter (0.00044 grains per actual cubic foot) or less.

(ii) The bag leak detection system sensor must provide output of relative PM loadings. The permittee shall continuously record the output from the bag leak detection system using electronic or other means (e.g., using a strip chart recorder or a data logger).

(iii) The bag leak detection system must be equipped with an alarm system that will sound when the system detects an increase in relative particulate loading over the alarm set point established according to paragraph (iv) below, and the alarm must be located such that it can be heard by the appropriate plant personnel.

(iv) In the initial adjustment of the bag leak detection system, the permittee shall establish, at a minimum, the baseline output by adjusting the sensitivity (range) and the averaging period of the device, the alarm set points, and the alarm delay time.

(v) Following initial adjustment, the permittee shall not adjust the averaging period, alarm set point, or alarm delay time without Department approval except as provided in paragraph (vi) below.

(vi) Once per quarter, the owner or operator may adjust the sensitivity of the bag leak detection system to account for seasonal effects, including temperature and humidity, according to the procedures identified in the site-specific monitoring plan required in paragraph (2) below.

**SECTION D. Source Level Plan Approval Requirements**

(vi) The permittee shall install the bag leak detection sensor downstream of the fabric filter.

(viii) reserved

(2) The permittee shall develop and submit to the Department for approval of a site-specific monitoring plan for each bag leak detection system. The owner or operator must operate and maintain the bag leak detection system according to the site-specific monitoring plan at all times. Each monitoring plan must describe the items in paragraphs (i) through (vi) below.

(i) Installation of the bag leak detection system;

(ii) Initial and periodic adjustment of the bag leak detection system, including how the alarm set-point will be established;

(iii) Operation of the bag leak detection system, including quality assurance procedures;

(iv) How the bag leak detection system will be maintained, including a routine maintenance schedule and spare parts inventory list;

(v) How the bag leak detection system output will be recorded and stored; and

(vi) Corrective action procedures as specified in the work practice requirements herein. In approving the site-specific monitoring plan, the Administrator or delegated authority may allow owners and operators more than 3 hours to alleviate a specific condition that causes an alarm if the owner or operator identifies in the monitoring plan this specific condition as one that could lead to an alarm, adequately explains why it is not feasible to alleviate this condition within 3 hours of the time the alarm occurs, and demonstrates that the requested time will ensure alleviation of this condition as expeditiously as practicable.

IV. RECORDKEEPING REQUIREMENTS.**# 013 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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

The permittee shall maintain and make available, upon request by the Department, monthly records pertaining to the operation of Source ID P301. The records at a minimum shall include the following information:

(1) Total emissions of NO_x (as NO₂), CO, PM (total), PM₁₀, PM_{2.5}, VOC, SO_x (as SO₂), and HAPs, including startup, shutdown, and malfunction emissions that may occur, on a per calendar month basis, as well as the calendar month and 12-month rolling sum totals to verify compliance with BAT for Source ID P301 and background information used to derive the reported values;

(2) Copies of the performance source test reports; and

(3) Total operating hours of Source ID P301 and C301 on a calendar month and 12-month rolling basis.

014 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

(a) The permittee shall maintain records pertaining to the performed tune-ups of the low NO_x burner preheater associated with Source ID P301. 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.

(b) Additionally, the permittee shall maintain records to demonstrate compliance with the periodic monitoring requirements for Source ID P301 in a manner that the records shall include enough information/data and calculations and be generated

**SECTION D. Source Level Plan Approval Requirements**

and kept pursuant to 25 Pa. Code section 127.511 and to verify compliance with the NO_x and CO emission limitations expressed in units of lb/MMBtu.

015 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

The permittee shall maintain and make available, upon request by the Department, records of the monthly combined sum total amounts of fuel (natural gas) used by Source IDs P101, P102, P301 and P302 authorized herein, expressed as MMBtu/month, including the calendar month and the 12-month rolling sum totals as applicable upon project startup and the supporting monitoring data other info as required in accordance with 25 Pa. Code section 127.511.

V. REPORTING REQUIREMENTS.**# 016 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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

(a) No later than 180 days after project startup, 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;

(2) In addition, regarding the required C301 continuous bag leak detection monitoring, 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;

(3) The total amount of natural gas consumed by Source ID P301 per calendar month along with the calendar month sum totals expressed as MMBtu and the 12-month rolling sum totals as applicable upon project startup; and

(4) The total hours of operation of Source ID P301 and C301 per calendar month along with the calendar month sum totals as applicable upon project startup.

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 for the reporting period January 1 through June 30 of the concurrent year and by March 1 for the reporting period July 1 through December 31 of the previous year.

017 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

(a) The permittee shall submit semi-annual reports of the required monitoring including the monthly combined total fuel usages of Source IDs P101, P102, P301 and P302 as well as the calendar month and 12-month rolling sum totals expressed in units of MMBtu as applicable upon project startup in order to verify compliance with the fuel throughput restriction herein.

(b) 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).

VI. WORK PRACTICE REQUIREMENTS.**# 018 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

A sufficient quantity of spare fabric filter bags for C301 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 Plan Approval Requirements****# 019 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Authority is also derived from 25 Pa. Code section 127.511 and 40 CFR section 60.676]

(b)(1) For each bag leak detection system installed and operated according to § 60.674(d), the permittee shall keep the records specified in paragraphs (b)(2)(i) through (iii) of this permit condition.

(b)(2)(i) Records of the bag leak detection system output;

(b)(2)(ii) Records of bag leak detection system adjustments, including the date and time of the adjustment, the initial bag leak detection system settings, and the final bag leak detection system settings; and

(b)(2)(iii) The date and time of all bag leak detection system alarms, the time that procedures to determine the cause of the alarm were initiated, the cause of the alarm, an explanation of the actions taken, the date and time the cause of the alarm was alleviated, and whether the cause of the alarm was alleviated within 3 hours of the alarm.

020 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.674]**Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants****Monitoring of operations.**

For the Source ID C301 bag leak detection system, the permittee shall initiate procedures to determine the cause of every alarm within 1 hour of the alarm. Except as provided elsewhere herein, the permittee shall alleviate the cause of the alarm within 3 hours of the alarm by taking whatever corrective action(s) are necessary. Corrective actions may include, but are not limited to the following:

(i) Inspecting the fabric filter for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in PM emissions;

(ii) Sealing off defective bags or filter media;

(iii) Replacing defective bags or filter media or otherwise repairing the control device;

(iv) Sealing off a defective fabric filter compartment;

(v) Cleaning the bag leak detection system probe or otherwise repairing the bag leak detection system; or

(vi) Shutting down the process producing the PM emissions.

VII. ADDITIONAL REQUIREMENTS.**# 021 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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

Source P301 authorized herein rated for 58 tph approximately consists of the natural gypsum roller mill/dryer A and ancillary equipment below:

(1) Feed bin equipped with a vent filter discharged indoors/under full enclosure (C303);

(2) Roller Mill A preheater including a natural gas-fired burner (Maxon Corporation Kinedizer LE or equivalent as approved by the Department);

(3) Roller mill A cyclone;

(4) Roller mill A dust collector (Source ID C301) and screw conveyor; and

(5) Collection Screw A equipped with a vent filter discharged indoors/under full enclosure (C305).

022 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

**SECTION D. Source Level Plan Approval Requirements**

The preheater to Roller mill #1 (A) associated with Source ID P301 shall be equipped with a low nitrogen oxides (low NOx) burner.

023 [25 Pa. Code §127.12b]**Plan approval 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 the Source ID C301 fabric collector shall be equipped with an air dryer and an oil trap.

024 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

Source ID P301 shall not operate if the Source ID C301 fabric collector is inoperable.

025 [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 ID P301 authorized herein 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 P301, as specified 40 CFR sections 60.670 through 60.676.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: P302

Source Name: NATURAL GYPSUM PREHEATER/ROLLER MILL B

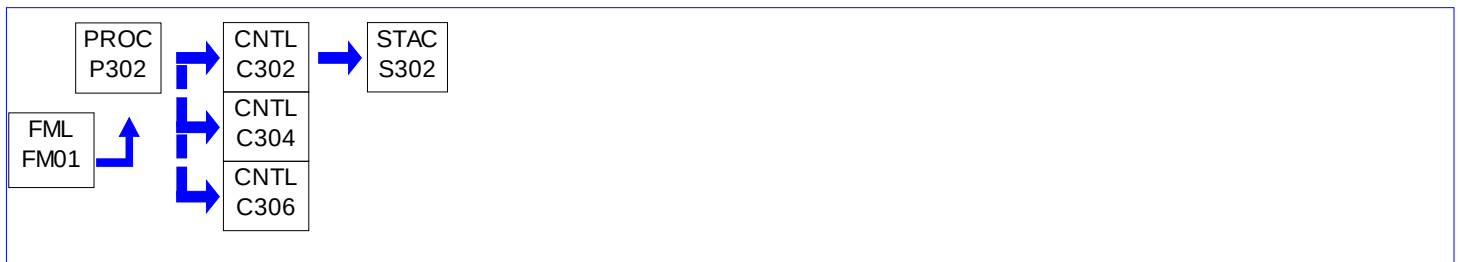
Source Capacity/Throughput:

58.000 Tons/HR

NATURAL GYPSUM

16.667 MCF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

(a) This section applies to sources except those subject to other provisions of this article, with respect to the control of sulfur compound emissions.

(b) No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

002 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

(a) The concentration of the particulate emissions including PM filterable and condensable (total) from within the exhaust of Source ID C302 associated with the Source ID P302 natural gypsum roller mill/dryer operation shall not be in excess of the following limits:

PM (total): 0.009 grain per dry standard cubic foot of effluent gas volume (gr/dscf);

PM-10: 0.009 gr/dscf; and

PM2.5: 0.009 gr/dscf.

[Compliance assures compliance with the emission limits as applicable under 25 Pa. Code Section 123.13 and 40 CFR 60.672]

(b) In addition, the annual total emissions of PM (total), PM-10, and PM2.5 from Source ID P302 shall not exceed 6.76 tons in any twelve consecutive month period.

003 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

(a) The nitrogen oxides (NO_x) emissions, expressed as NO₂, by the Source ID P302 natural gypsum roller mill/dryer operation shall not exceed 0.048 pounds per million Btu of heat input.

(b) In addition, the annual total emissions of NO_x from Source ID 302 shall not exceed 3.57 tons in any twelve consecutive month period.

004 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

**SECTION D. Source Level Plan Approval Requirements**

(a) The carbon monoxide (CO) emissions by the Source ID P302 natural gypsum roller mill/dryer operation shall not exceed 0.20 pounds per million Btu of heat input.

(b) In addition, the annual total emissions of CO from Source ID 302 shall not exceed 14.9 tons in any twelve consecutive month period.

005 [25 Pa. Code §127.12b]
Plan approval terms and conditions.

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

(a) The volatile organic compound (VOC) emissions, expressed as propane, by the Source ID P302 natural gypsum roller mill/dryer operation shall not exceed 0.02 pounds per million Btu of heat input.

(b) In addition, the annual total emissions of VOC from Source ID 302 shall not exceed 1.50 tons in any twelve consecutive month period.

006 [25 Pa. Code §127.12b]
Plan approval terms and conditions.

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

No person may authorize the sum total aggregate of natural gas consumed by Source IDs P101, P102, P301 and P302 in excess of 613,200 MMBtu in any twelve consecutive month period.

007 [25 Pa. Code §127.12b]
Plan approval terms and conditions.

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

The annual total emissions of HAPs from Source ID 302 shall not exceed 0.2 tons in any twelve consecutive month period.

Fuel Restriction(s).

008 [25 Pa. Code §127.12b]
Plan approval terms and conditions.

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

The permittee shall only use natural gas as fuel to operate the burner associated with Source ID P302 authorized herein.

II. TESTING REQUIREMENTS.

009 [25 Pa. Code §127.12b]
Plan approval terms and conditions.

(a) No later than 30 days of startup, a test protocol shall be submitted in accordance with section C herein including any affected sources associated with Source ID P302 herein and their applicable federal testing requirements under 40 CFR Part 60 subpart OOO, in addition to the testing requirements in section C herein.

(b) No later than 180 days of startup or 90 days after the test protocol is approved by the Department, the permittee shall conduct performance testing on the roller mill associated with Source ID P302 and on its Source ID C302 fabric collector in accordance with 40 CFR Part 60 subpart OOO using the Department approved methods other procedures for NO_x, CO, VOC, and PM-10 to verify compliance while the sources are operating at maximum routine operating conditions.

(c) The permittee shall also conduct performance evaluations on the required bag leak detection monitoring associated with Source IDs P302 and C302 in accordance with the site-specific monitoring plan as required below.

(d) The permittee shall insure all federal testing requirements contained in the subpart OOO of 40 CFR Part 60 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.

**SECTION D. Source Level Plan Approval Requirements****III. MONITORING REQUIREMENTS.****# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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

(a) The permittee shall conduct periodic monitoring for NO_x and CO concentrations in the effluent gas on a calendar quarter basis including a minimum of 2 months between each quarterly performance and using other Department approved procedures to verify compliance.

(b) If monitoring fails to verify compliance, the permittee shall submit written or email notification to the Department no later than 3 days after the date and include within the required notice the scheduled date of the Source ID P302 combustion process tune-up. Once corrected, the permittee shall notify the Department with a report describing the findings including the results of the monitoring before and after the tune-up.

011 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

The permittee shall monitor the amounts of natural gas consumed to operate Source IDs P101, P102, P301 and P302 authorized herein along with the other parameters as necessary to derive total monthly heat input throughput, expressed as MMBtu/month, and shall generate monthly records as required below in order to verify compliance with the fuel heat input throughput restriction herein.

012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.674]**Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants****Monitoring of operations.**

[Authority is also derived pursuant to BAT in accordance with 25 Pa. Code sections 127.1 and 127.12]

(a) No later than 180 days of startup, the permittee shall install, operate, and maintain the bag leak detection system for the Source ID P302 baghouse according to paragraphs (a)(1) through (2) of this permit condition in order to establish continuous monitoring to verify compliance with the PM (total), PM-10, and PM2.5 restrictions herein.

(1) The bag leak detection system shall meet the specifications and requirements below.

(i) The bag leak detection system must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 1 milligram per dry standard cubic meter (0.00044 grains per actual cubic foot) or less.

(ii) The bag leak detection system sensor must provide output of relative PM loadings. The permittee shall continuously record the output from the bag leak detection system using electronic or other means (e.g., using a strip chart recorder or a data logger).

(iii) The bag leak detection system must be equipped with an alarm system that will sound when the system detects an increase in relative particulate loading over the alarm set point established according to paragraph (iv) below, and the alarm must be located such that it can be heard by the appropriate plant personnel.

(iv) In the initial adjustment of the bag leak detection system, the permittee shall establish, at a minimum, the baseline output by adjusting the sensitivity (range) and the averaging period of the device, the alarm set points, and the alarm delay time.

(v) Following initial adjustment, the permittee shall not adjust the averaging period, alarm set point, or alarm delay time without Department approval except as provided in paragraph (vi) below.

(vi) Once per quarter, the owner or operator may adjust the sensitivity of the bag leak detection system to account for seasonal effects, including temperature and humidity, according to the procedures identified in the site-specific monitoring plan required in paragraph (2) below.

**SECTION D. Source Level Plan Approval Requirements**

(vi) The permittee shall install the bag leak detection sensor downstream of the fabric filter.

(viii) reserved

(2) The permittee shall develop and submit to the Department for approval of a site-specific monitoring plan for each bag leak detection system. The owner or operator must operate and maintain the bag leak detection system according to the site-specific monitoring plan at all times. Each monitoring plan must describe the items in paragraphs (i) through (vi) below.

(i) Installation of the bag leak detection system;

(ii) Initial and periodic adjustment of the bag leak detection system, including how the alarm set-point will be established;

(iii) Operation of the bag leak detection system, including quality assurance procedures;

(iv) How the bag leak detection system will be maintained, including a routine maintenance schedule and spare parts inventory list;

(v) How the bag leak detection system output will be recorded and stored; and

(vi) Corrective action procedures as specified in the work practice requirements herein. In approving the site-specific monitoring plan, the Administrator or delegated authority may allow owners and operators more than 3 hours to alleviate a specific condition that causes an alarm if the owner or operator identifies in the monitoring plan this specific condition as one that could lead to an alarm, adequately explains why it is not feasible to alleviate this condition within 3 hours of the time the alarm occurs, and demonstrates that the requested time will ensure alleviation of this condition as expeditiously as practicable.

IV. RECORDKEEPING REQUIREMENTS.**# 013 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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

The permittee shall maintain and make available, upon request by the Department, monthly records pertaining to the operation of Source ID P302. The records at a minimum shall include the following information:

(1) Total emissions of NO_x (as NO₂), CO, PM (total), PM₁₀, PM_{2.5}, VOC, SO_x (as SO₂), and HAPs, including startup, shutdown, and malfunction emissions that may occur, on a per calendar month basis, as well as the calendar month and 12-month rolling sum totals to verify compliance with BAT for Source ID P302 and background information used to derive the reported values;

(2) Copies of the performance source test reports; and

(3) Total operating hours of Source ID P302 and C302 on a calendar month and 12-month rolling basis.

014 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

The permittee shall maintain and make available, upon request by the Department, records of the monthly combined sum total amounts of fuel (natural gas) used by Source IDs P101, P102, P301 and P302 authorized herein, expressed as MMBtu/month, including the calendar month and the 12-month rolling sum totals as applicable upon project startup and the supporting monitoring data other info as required in accordance with 25 Pa. Code section 127.511.

015 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

**SECTION D. Source Level Plan Approval Requirements**

(a) The permittee shall maintain records pertaining to the performed tune-ups of the low NO_x burner preheater associated with Source ID P302. 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.

(b) Additionally, the permittee shall maintain records to demonstrate compliance with the periodic monitoring requirements for Source ID P302 in a manner that the records shall include enough information/data and calculations and be generated and kept pursuant to 25 Pa. Code section 127.511 and to verify compliance with the NO_x and CO emission limitations expressed in units of lb/MMBtu.

V. REPORTING REQUIREMENTS.**# 016 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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

(a) No later than 180 days after project startup, 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;

(2) In addition, regarding the required C302 continuous bag leak detection monitoring, 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;

(3) The total amount of natural gas consumed by Source ID P302 per calendar month along with the calendar month sum totals expressed as MMBtu and the 12-month rolling sum totals as applicable upon project startup; and

(4) The total hours of operation of Source ID P302 and C302 per calendar month along with the calendar month sum totals as applicable upon project startup.

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 for the reporting period January 1 through June 30 of the concurrent year and by March 1 for the reporting period July 1 through December 31 of the previous year.

017 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

(a) The permittee shall submit semi-annual reports of the required monitoring including the monthly combined total fuel usages of Source IDs P101, P102, P301 and P302 as well as the calendar month and 12-month rolling sum totals expressed in units of MMBtu as applicable upon project startup in order to verify compliance with the fuel throughput restriction herein.

(b) 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).

VI. WORK PRACTICE REQUIREMENTS.**# 018 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

A sufficient quantity of spare fabric filter bags for C302 shall be kept on hand at all times in order to replace any worn or damaged bags due to deterioration resulting from routine operation.

019 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

[Authority is also derived from 25 Pa. Code section 127.511 and 40 CFR section 60.676]

**SECTION D. Source Level Plan Approval Requirements**

(b)(1) For each bag leak detection system installed and operated according to § 60.674(d), the permittee shall keep the records specified in paragraphs (b)(2)(i) through (iii) of this permit condition.

(b)(2)(i) Records of the bag leak detection system output;

(b)(2)(ii) Records of bag leak detection system adjustments, including the date and time of the adjustment, the initial bag leak detection system settings, and the final bag leak detection system settings; and

(b)(2)(iii) The date and time of all bag leak detection system alarms, the time that procedures to determine the cause of the alarm were initiated, the cause of the alarm, an explanation of the actions taken, the date and time the cause of the alarm was alleviated, and whether the cause of the alarm was alleviated within 3 hours of the alarm.

020 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.674]

Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants

Monitoring of operations.

For the Source ID C302 bag leak detection system, the permittee shall initiate procedures to determine the cause of every alarm within 1 hour of the alarm. Except as provided elsewhere herein, the permittee shall alleviate the cause of the alarm within 3 hours of the alarm by taking whatever corrective action(s) are necessary. Corrective actions may include, but are not limited to the following:

(i) Inspecting the fabric filter for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in PM emissions;

(ii) Sealing off defective bags or filter media;

(iii) Replacing defective bags or filter media or otherwise repairing the control device;

(iv) Sealing off a defective fabric filter compartment;

(v) Cleaning the bag leak detection system probe or otherwise repairing the bag leak detection system; or

(vi) Shutting down the process producing the PM emissions.

VII. ADDITIONAL REQUIREMENTS.

021 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

Source P302 authorized herein rated for 58 tph approximately consists of the natural gypsum roller mill/dryer B and ancillary equipment below:

(1) Feed bin equipped with a vent filter discharged indoors/under full enclosure (C304);

(2) Roller Mill B preheater including a natural gas-fired burner (Maxon Corporation Kinedizer LE or equivalent as approved by the Department);

(3) Roller mill B cyclone;

(4) Roller mill B dust collector (Source ID C302) and screw conveyor; and

(5) Collection Screw A equipped with a vent filter discharged indoors/under full enclosure (C306).

022 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

The preheater to Roller mill #2 (B) associated with Source ID P302 shall be equipped with a low nitrogen oxides (low NOx) burner.

**SECTION D. Source Level Plan Approval Requirements****# 023 [25 Pa. Code §127.12b]****Plan approval 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 the Source ID C302 fabric collector shall be equipped with an air dryer and an oil trap.

024 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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

Source ID P302 shall not operate if the Source ID C302 fabric collector is inoperable.

025 [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 ID P302 authorized herein 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 P302, as specified 40 CFR sections 60.670 through 60.676.



SECTION E. Source Group Plan Approval Restrictions.

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.



SECTION H. Miscellaneous.



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