



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY SYNTHETIC MINOR OPERATING PERMIT

Issue Date: April 10, 2024

Effective Date: April 10, 2024

Expiration Date: April 9, 2029

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

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

State Only Permit No: 14-00010

Synthetic Minor

Federal Tax Id - Plant Code: 20-5957656-1

Owner Information

Name: SNOW SHOE REFRACTORIES LLC

Mailing Address: 895 CLARENCE RD
CLARENCE, PA 16829-8111

Plant Information

Plant: SNOW SHOE REFRACTORIES LLC/CLARENCE PLT

Location: 14 Centre County 14929 Snow Shoe Township

SIC Code: 3255 Manufacturing - Clay Refractories

Responsible Official

Name: F BILL BUTTERWORTH

Title: PLANT MGR

Phone: (814) 387 - 6811 Ext.213

Email: bill.butterworth@firebricks.com

Permit Contact Person

Name: F BILL BUTTERWORTH

Title: PLANT MGR

Phone: (814) 387 - 6811 Ext.213

Email: bill.butterworth@firebricks.com

[Signature] _____

MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION



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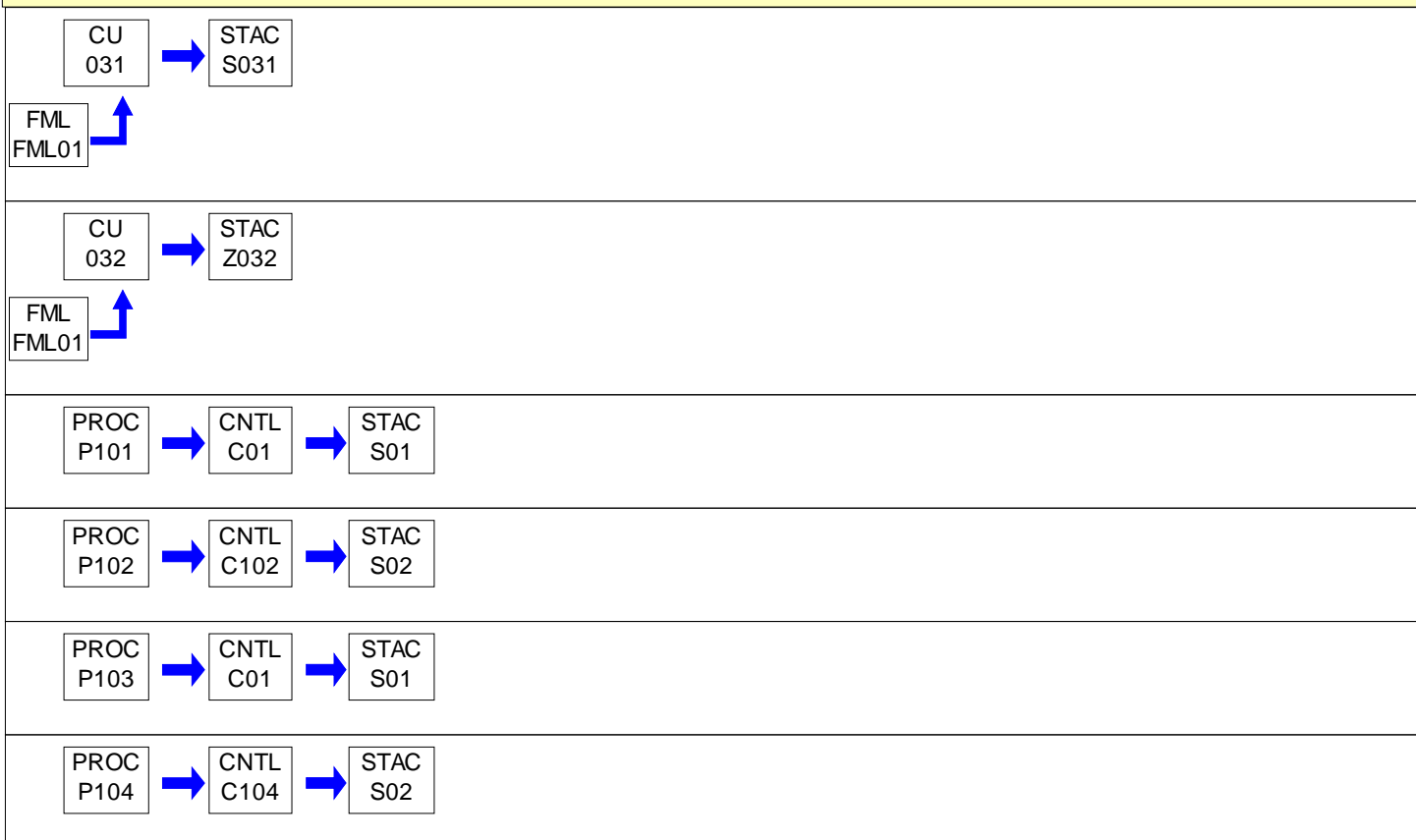
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**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput		Fuel/Material
031	E KEELER BOILER (SHUT-DOWN)			
032	COMBUSTION UNITS			
P101	MAXIMULLER GRINDING SYSTEM	13.300	Tons/HR	RAW MATERIALS
P102	WET TEMPERING PANS			
P103	BARMAC GRINDING SYSTEM	10.000	Tons/HR	RAW MATERIALS
P104	TEMPERING PANS			
P105	PERIODIC KILNS 1 - 8 (SHUT-DOWN)			
P106	BATCH DRYER	1.000	Tons/HR	GREEN
		5.000	MCF/HR	Natural Gas
P107	BICKLEY KILNS	4.000	Tons/HR	FIREBRICK OTHER
		15.000	MCF/HR	Natural Gas
P108	LANLEY DRYERS	4.000	Tons/HR	FIREBRICK OTHER
		3.000	MCF/HR	Natural Gas
P109	BELL KILNS	20.000	Tons/HR	FIREBRICK OTHER
		10.000	MCF/HR	Natural Gas
P110	PERIODIC KILNS 9 & 10 (SHUT-DOWN)			
P111	HIGH TECH SYSTEM			
P112	PORTABLE CRUSHER	5.000	Gal/HR	Diesel Fuel
		100.000	Tons/HR	
P113	UNPAVED HAUL ROADS			
P114	BRICK CUTTING & GRINDING SAWS			
P115	LAB KILNS			
P116	WOODWORKING OPERATION			
P117	#10 PAN AND #13 MIXER			
P118	PARTS WASHERS			
P119	BRICK PRESSES & PRESS MIXERS			
P205	TWO (2) MIXING OTHER SOURCE OPERATIONS HYDRECON	167.000	Lbs/HR	RAW MATERIALS
P206	MORTAR MACHINE MIXING OPERATION HYDRECON	167.000	Lbs/HR	RAW MATERIALS
C01	FABRIC COLLECTOR FOR GRINDING SYSTEMS			
C04	PGBRN 120CT HYDRCN CRSHPN			
C05	PGBRN 168CT HYDRCN 3 MIXERS			
C102	FABRIC COLLECTOR FOR WET TEMPERING PANS			
C104	FABRIC COLLECTOR FOR TEMPERING PANS			
C110	AFTERBURNER (SHUT-DOWN)			
C111	FABRIC COLLECTOR FOR HIGH TECH SYSTEM			
C114	FABRIC COLLECTOR FOR BRICK SAWS			
C116	FABRIC COLLECTOR FOR WOODWORKING SHOP			
C117	DUST COLLECTOR			
FML01	NATURAL GAS SUPPLY			
S01	STACK FOR GRINDERS FABRIC FILTER			

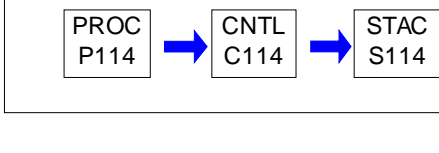
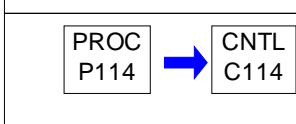
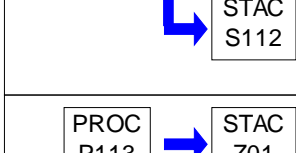
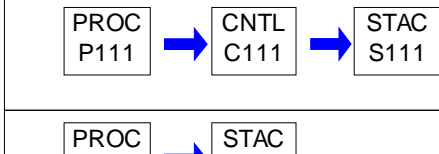
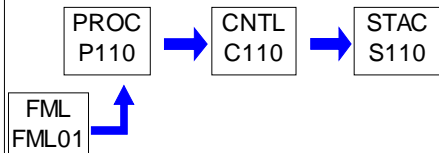
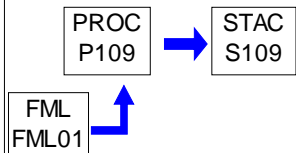
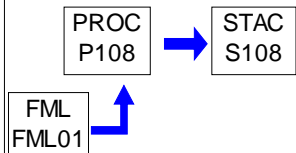
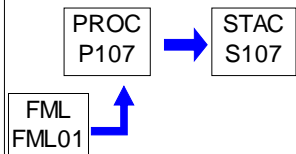
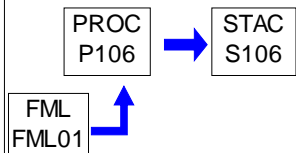
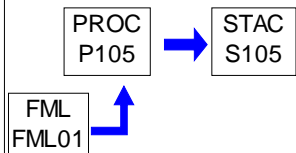
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
S02	STACK FOR MODEL 360 CT FABRIC FILTERS		
S031	STACK FOR E KEELER BOILER		
S105	STACKS FOR PERIODIC KILNS 1 - 8		
S106	STACK FOR BATCH DRYER		
S107	STACKS FOR KILNS		
S108	STACKS FOR LANLEY DRYERS		
S109	STACKS FOR BELL KILNS		
S110	STACK FOR PERIODIC KILNS 9 & 10		
S111	STACK FOR HIGH TECH SYSTEM FABRIC FILTER		
S112	ENGINE EXHAUST STACK		
S114	STACK FOR BRICK SAWS FABRIC COLLECTOR		
S115	STACKS FOR LAB KILNS		
S116	STACK FOR WOODWORKING DUST COLLECTOR		
S117	STACK FOR PRESS MIXERS DUST COLLECTOR		
S205	PANGBORN DUST COLLECTOR STACK		
S206	PANGBORN DUST COLLECTOR STACK		
Z01	FUGITIVE DUST EMISSIONS		
Z032	COMBUSTION UNITS EMISSIONS		
Z118	PARTS WASHER EMISSIONS		

PERMIT MAPS

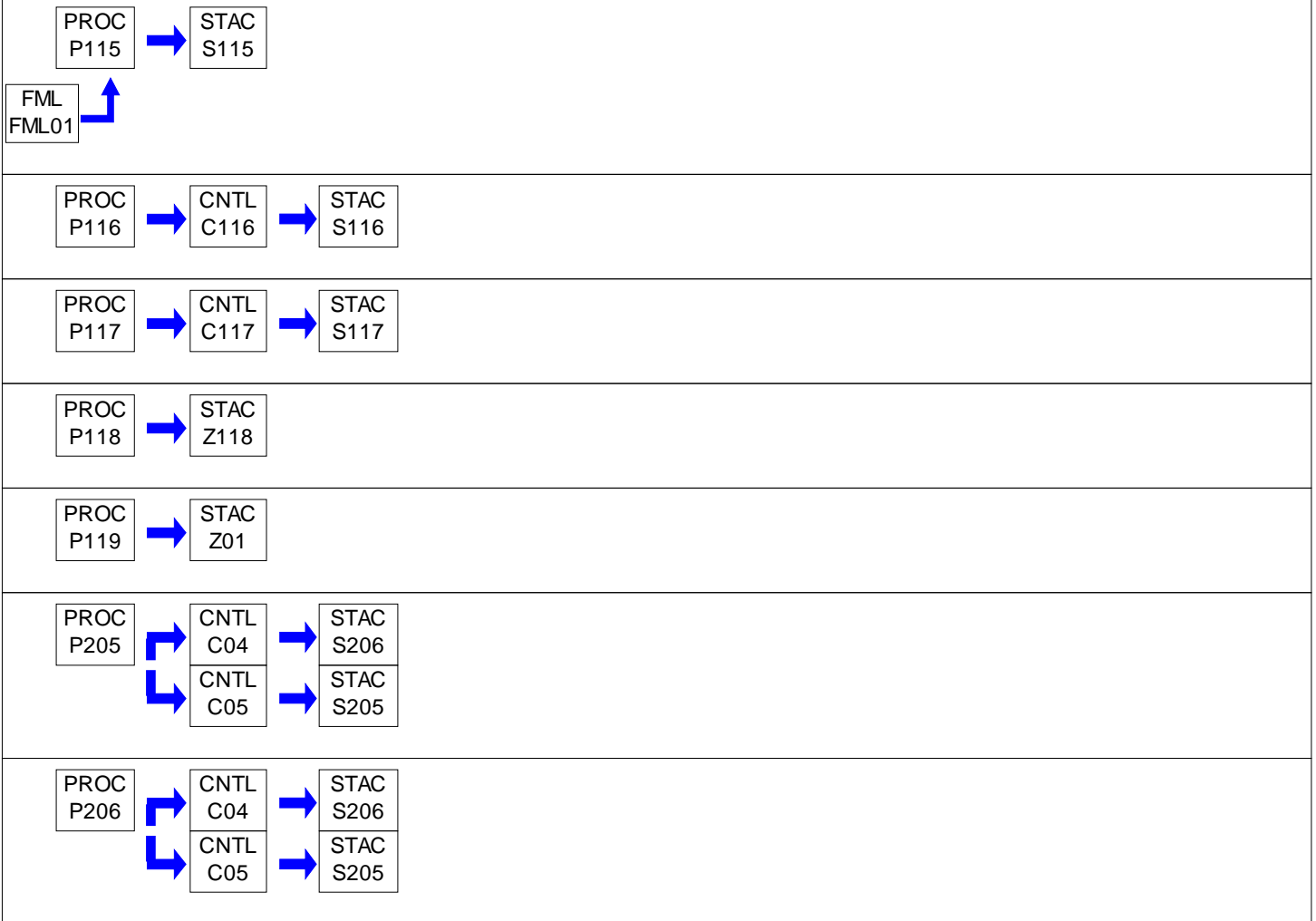


PERMIT MAPS





PERMIT MAPS



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

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

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

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

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

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

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

- (a) The permittee shall pay the annual operating permit maintenance fee according to the following fee schedule in either paragraph (1) or (2) in accordance with 25 Pa. Code § 127.703(d) on or before December 31 of each year for the next calendar year.
- (1) For a synthetic minor facility, a fee equal to:
- (i) Four thousand dollars (\$4,000) for calendar years 2021—2025.
 - (ii) Five thousand dollars (\$5,000) for calendar years 2026—2030.
 - (iii) Six thousand three hundred dollars (\$6,300) for the calendar years beginning with 2031.

**SECTION B. General State Only Requirements**

(2) For a facility that is not a synthetic minor, a fee equal to:

- (i) Two thousand dollars (\$2,000) for calendar years 2021—2025.
- (ii) Two thousand five hundred dollars (\$2,500) for calendar years 2026—2030.
- (iii) Three thousand one hundred dollars (\$3,100) for the calendar years beginning with 2031.

(b) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

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

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

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

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

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

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

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

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

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

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

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

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

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

(a) The permittee shall comply with the conditions of this operating permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one or more of the following:

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

#011 [25 Pa. Code §§ 127.450, 127.462, 127.465 & 127.703]**Operating Permit Modifications**

(a) The permittee is authorized to make administrative amendments, minor operating permit modifications and significant operating permit modifications, under this permit, as outlined below:

**SECTION B. General State Only Requirements**

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

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

(d) Significant Operating Permit Modifications. The permittee shall submit the application for significant operating permit modifications in accordance with 25 Pa. Code § 127.465.

(e) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

- (1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.
 - (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.
 - (3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code §123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.
 - (4) Space heaters which heat by direct heat transfer.
 - (5) Laboratory equipment used exclusively for chemical or physical analysis.
 - (6) Other sources and classes of sources determined to be of minor significance by the Department.
- (e) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:
- (1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (c)(4) and (5) of this permit condition.
 - (2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.
 - (3) Violate any applicable requirement of this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.
- (f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.
- (g) Except for de minimis emission increases, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.
- (h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

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

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

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

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

- (1) Construction or demolition of buildings or structures,
- (2) Grading, paving, and maintenance of roads and streets,
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars, and other vehicular equipment are not considered as emissions from use of roads and streets,
- (4) Clearing of land,
- (5) Stockpiling of materials,
- (6) 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:

- (a) The emissions are of minor significance with respect to causing air pollution,
- (b) The emissions are not preventing or interfering with the attainment or maintenance of any 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(a)(1)-(7) above if the emissions are visible at the point the emissions pass outside the person's property.

003 [25 Pa. Code §123.41]**Limitations**

No person may permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

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

004 [25 Pa. Code §123.42]**Exceptions**

The emission limitations of 25 Pa. Code Section 123.41 shall not apply when:

- (1) The presence of uncombined water is the only reason for failure of the emission to meet the limitations,
- (2) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions,
- (3) The emission results from sources specified in 25 Pa. Code Section 123.1(a)(1)-(9).

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

[Additional authority for this permit condition is derived from the permittee requesting the Synthetic Minor restriction]

- (a) The total combined emissions of particulate matter less than 10 microns (PM-10) from all sources at the facility shall not equal or exceed 100 tons in any 12 consecutive month period.

**SECTION C. Site Level Requirements**

(b) The total combined emissions of any hazardous air pollutant (HAP) from all sources at the facility shall not equal or exceed 10 tons in any 12 consecutive month period.

(c) The total combined emissions of all hazardous air pollutants (HAPs) from all sources at the facility shall not equal or exceed 25 tons in any 12 consecutive month period.

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

If, at any time, the Department has cause to believe that air contaminant emissions from any of the sources authorized herein are in excess of the limitations specified in, or established pursuant to, any applicable regulation contained in 25 Pa. Code, Subpart C, Article III, the Department may require the permittee to conduct tests deemed necessary by the Department to determine the actual emission rate(s). The permittee shall perform such tests in accordance with applicable provisions of 25 Pa. Code, Chapter 139 (relating to sampling and testing) and in accordance with any restrictions or limitations established by the Department within one hundred and eighty (180) days of the date the Department notifies the permittee, in writing, of the testing requirement.

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

(a) Pursuant to 25 Pa. Code § 139.3, at least 90 calendar days prior to commencing an 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

**SECTION C. Site Level Requirements**

electronic copy shall be sent to the PSIMS Administrator in Central Office. Email addresses are provided on the PA DEP website.

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

008 [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.

009 [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 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 effect 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.**# 010 [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.

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

(a) The permittee shall conduct a weekly inspection of the facility during daylight hours while the facility is operating to detect visible emissions, visible fugitive emissions, and malodors. Weekly inspections are necessary to determine:

**SECTION C. Site Level Requirements**

- (1) The presence of visible emissions,
 - (2) The presence of visible fugitive emissions,
 - (3) The presence of malodors beyond the boundaries of the facility.
- (b) All detected visible emissions, visible fugitive emissions, or malodors that have the potential to exceed applicable limits shall be reported at once to the manager of the facility.

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

- (a) The permittee shall keep records of the supporting calculations on a monthly basis to verify compliance with the particulate matter emissions limitation on all sources at the facility in any 12 consecutive month period.
- (b) The permittee shall keep records of the supporting calculations on a monthly basis to verify compliance with the any single HAP emissions limitation on all sources at this facility in any 12 consecutive month period and the total HAP emissions limitation on all sources at this facility in any 12 consecutive month period.
- (c) These records including the background information used to derive the values shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

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

- (a) The permittee shall maintain a logbook of the facility's weekly inspections performed. The logbook shall include the name of the company representative performing the inspection, the date and time of inspections, any instances of exceedances of visible emissions limitations, visible fugitive emissions limitations, and malodorous air emissions limitations, and the name of the manager informed if a potential exceedance is observed. The permittee shall also record any and all corrective action(s) taken to abate each recorded deviation to prevent future occurrences.
- (b) These records including the supporting monitoring info as required according to the recordkeeping requirements in section B herein shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

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

Upon request by the Department, the permittee shall submit all requested reports in accordance with the Department's suggested format.

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

- (a) The permittee shall submit reports to the Department on an annual basis that include the following information:
 - (1) The monthly emissions of particulate matter having an aerodynamic diameter less than 10 microns in diameter (PM-10) to verify compliance with the emissions limitation on all sources at the facility including the monthly totals and the 12-month rolling total calculations for each calendar month in the reporting period.
 - (2) The monthly emissions of each HAP and total HAPs to verify compliance with the emissions limitations on all sources at the facility including the monthly totals and the 12-month rolling total calculations for each calendar month in the reporting period.
- (b) The annual reports shall be submitted to the Department no later than March 1 for January 1 through December 31 reporting period of the previous calendar year.

**SECTION C. Site Level Requirements****# 016 [25 Pa. Code §127.442]****Reporting requirements.**

(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.

VI. WORK PRACTICE REQUIREMENTS.**# 017 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

For any source specified in 25 Pa. Code Section 123.1 subsection(s) (a)(1)-(7) or (a)(9), the permittee shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads or the clearing of land,
- (2) Application of asphalt, oil, or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts,
- (3) Paving and maintenance of roadways,

**SECTION C. Site Level Requirements**

(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.

VII. ADDITIONAL REQUIREMENTS.**# 018 [25 Pa. Code §121.7]****Prohibition of air pollution.**

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

019 [25 Pa. Code §123.31]**Limitations**

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

020 [25 Pa. Code §129.14]**Open burning operations**

No person may permit the open burning of material at this facility unless in accordance with 25 Pa. Code Section 129.14.

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

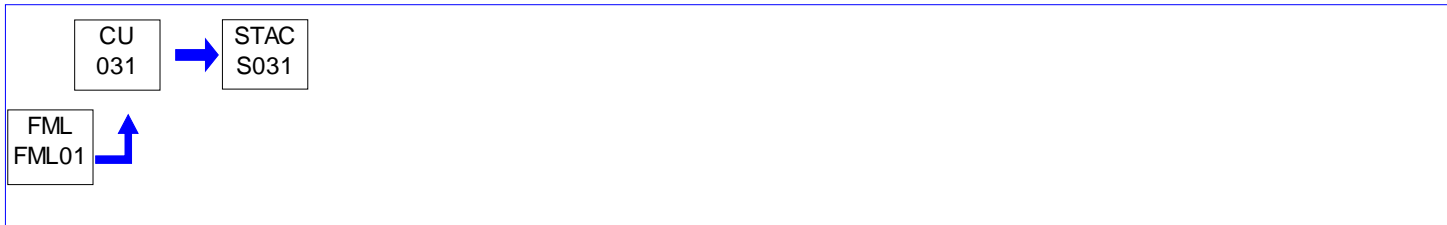
No compliance milestones exist.

**SECTION D. Source Level Requirements**

Source ID: 031

Source Name: E KEELER BOILER (SHUT-DOWN)

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Reserved] The permittee shall only use natural gas as fuel for Source ID 031.

Operation Hours Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Under no circumstance shall the Source ID 031 boiler herein be operated unless the permittee obtains prior authorization from the Department.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Reserved] Source ID 031 is the E. Keeler Co. (model 13525) boiler sized at 10,000 lbs steam per hour and heat input

**SECTION D. Source Level Requirements**

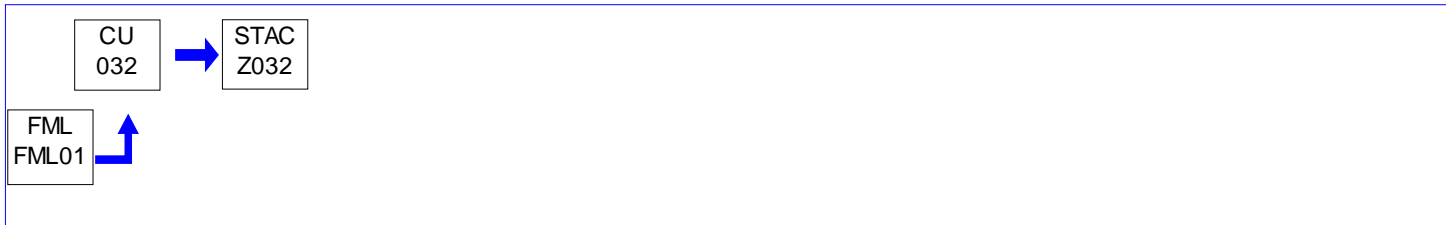
approximately 14.0 million BTU per hour (MMBtu/hr) that was fired on natural gas.

**SECTION D. Source Level Requirements**

Source ID: 032

Source Name: COMBUSTION UNITS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.22]

Combustion units

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from each combustion unit of Source ID 032 in excess of the rate of 4 pounds per million BTU of heat input over any 1-hour period.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use natural gas as fuel for each combustion unit of Source ID 032.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 032 consists of the following eighteen (18) natural gas fired combustion units:

**SECTION D. Source Level Requirements**

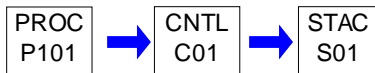
- (a) Fourteen (14) space heaters, rated at 0.050 MMBTU/hr each,
- (b) Three (3) tube-style space heaters, rated at 0.176 MMBTU/hr each,
- (c) One (1) Weatherking woodshop furnace, rated at 0.175 MMBTU/hr.

**SECTION D. Source Level Requirements**

Source ID: P101

Source Name: MAXIMULLER GRINDING SYSTEM

Source Capacity/Throughput: 13.300 Tons/HR RAW MATERIALS

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission of particulate matter from the exhaust of the fabric collector (ID C01) associated with Source ID P101 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

Throughput Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from the permittee requesting the Synthetic Minor restriction]

The permittee shall not process more than 10,500 tons of clay, recycled brick and other raw materials through Source ID P101 in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The fabric collector (ID C01) associated with Source ID P101 shall be equipped with instrumentation to monitor the pressure differential across the fabric filter bags on a continuous basis.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the total amounts of clay, recycled brick and other raw materials including the identities or types processed through Source ID P101 on a monthly and 12-month rolling basis to verify compliance with the throughput limitation on the equipment associated with Source ID P101, as well as the material data sheet, safety data sheets and other supplier info used to verify compliance.

(b) The records including the background info used to derive the reported values shall be retained for a minimum of five (5) years and shall be made available to the Department upon request in accordance with the recordkeeping requirements in section B herein.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the pressure differential across the fabric collector (ID C01) associated with Source

**SECTION D. Source Level Requirements**

ID P101 at least once per week when Source ID P101 is in operation.

(b) The records and the other applicable monitoring info as required in accordance with the recordkeeping requirements in section B herein shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall submit reports to the Department on an annual basis that include the records of the total amounts of clay, recycled brick and other raw material including the identities or types processed through Source ID P101 on a monthly and 12-month rolling basis to verify compliance with the throughput limitation on the equipment associated with Source ID P101.

(b) The annual reports shall be submitted to the Department no later than March 1 for the January 1 through December 31 reporting period of the previous year.

VI. WORK PRACTICE REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall not operate Source ID P101 without the simultaneous operation of the fabric collector (ID C01). The particulate matter including emissions less than 10 microns (PM-10) from Source ID P101 shall be controlled by ID C01.

(b) The permittee shall not operate Source ID P101 without the use of the associated equipment enclosures.

(c) The permittee shall operate a water spray at the feed of Source ID P101 at any time Source ID P101 is in operation, unless conditions are such that fugitive emissions are sufficiently controlled without the water spray. If, however, the water spray is incapable of operation due to any reason, Source ID P101 may not be operated.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

During those periods of time when the fabric filter bags in the fabric collector (ID C01) are being shaken, Source ID P101 may not be operated.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand a sufficient quantity of spare fabric filter bags for the fabric collector (ID C01) in order to be able to immediately replace any bags requiring replacement.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Under no circumstances shall Source ID P101 and Source ID P103 be operated at the same time. In addition, the damper on the air ventilation line to the source not in use must be closed at all times.

VII. ADDITIONAL REQUIREMENTS.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Source ID P101 is a Maximuller grinding system, rated at 2.8 tons per hour, which consists of the following:

- (1) One (1) feed hopper,
- (2) Eleven (11) conveyors,
- (3) One (1) Maximuller grinder,
- (4) One (1) screen bank,
- (5) Three (3) storage bins,

**SECTION D. Source Level Requirements**

- (6) One (1) elevator,
- (7) One (1) chute,
- (8) One (1) Clearfield Machining Co. mill,
- (9) One (1) water spray system.

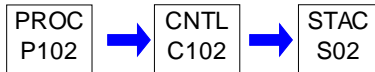
(b) ID C01 is a Pangborn model 1500CN68153 fabric collector.

**SECTION D. Source Level Requirements**

Source ID: P102

Source Name: WET TEMPERING PANS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission of particulate matter from the exhaust of the fabric collector (ID C102) associated with Source ID P102 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The fabric collector (ID C02) associated with Source ID P102 shall be equipped with instrumentation to monitor the pressure differential across the fabric filter bags on a continuous basis.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the pressure differential across the fabric collector (ID C102) associated with Source ID P102 at least once per week when Source ID P102 is in operation.

(b) The records and the other applicable monitoring info as required in accordance with the recordkeeping requirements in section B herein shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand a sufficient quantity of spare fabric filter bags for the fabric collector (ID C102) associated with Source ID P102 in order to be able to immediately replace any bags requiring replacement.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not operate Source ID P102 without the simultaneous operation of the fabric collector (ID C102). The particulate matter including emissions less than 10 microns (PM-10) from Source ID P102 shall be controlled by ID C102.

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

(a) Source ID P102 consists of three (3) wet tempering pans, rated at 3.01 tons per hour total, which are downstream the Maximuller and/or Barmac (Source ID P101 and P103) source operations herein.

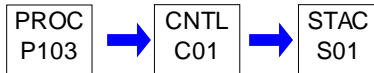
(b) ID C02 is a Pangborn fabric collector, model 360CT.

**SECTION D. Source Level Requirements**

Source ID: P103

Source Name: BARMAC GRINDING SYSTEM

Source Capacity/Throughput: 10.000 Tons/HR RAW MATERIALS

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

No person may permit the emission of particulate matter from the exhaust of the fabric collector (ID C01) associated with Source ID P103 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.672]**Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants
Standard for particulate matter.**

The permittee shall comply with all applicable requirements as specified in 40 CFR Part 60 Subpart 000 Section 60.672 for Source ID P103 when Source ID P103 is processing non-metallic minerals.

Throughput Restriction(s).**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the permittee requesting the Synthetic Minor restriction]

The permittee shall not process more than 16,500 tons of clay, aggregate and other raw materials through Source ID P103 in any 12 consecutive month period.

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.**

(a) The permittee shall comply with all applicable testing requirements as specified in 40 CFR Part 60 Subpart 000 Section 60.675 for Source ID P103 when Source ID P103 is processing non-metallic minerals.

(b) The permittee need not, however, perform any opacity testing or stack testing unless specifically requested to do so by the Department or the Environmental Protection Agency.

III. MONITORING REQUIREMENTS.**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The fabric collector (ID C01) associated with Source ID P103 shall be equipped with instrumentation to monitor the pressure differential across the fabric filter bags on a continuous basis.

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

(a) The permittee shall keep records of the amount of clay and other raw materials including the identities or types processed through Source ID P103 on a monthly and 12-month rolling basis to verify compliance with the throughput limitation on the equipment associated with Source ID P103, as well as the material data, safety data sheet or other

**SECTION D. Source Level Requirements**

supplier info used to verify compliance.

(b) The records including the background information used for the reported values shall be retained for a minimum of five (5) years and shall be made available to the Department upon request in accordance with the recordkeeping requirements in section B herein.

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

(a) The permittee shall keep records of the pressure differential across the fabric collector (ID C01) associated with Source ID P103 at least once per week when Source ID P103 is in operation.

(b) The records including the other applicable monitoring info as required in accordance with the recordkeeping requirements in section B herein shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]**Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants Reporting and recordkeeping.**

The permittee shall comply with all applicable recordkeeping requirements as specified in 40 CFR Part 60 Subpart 000 Section 60.676 for Source ID P103 when Source ID P103 is processing non-metallic minerals.

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

(a) The permittee shall submit reports to the Department on an annual basis that include the records of the total amounts of clay and other raw materials including the types or identities processed through Source ID P103 on a monthly and 12-month rolling basis to verify compliance with the throughput limitation on the equipment associated with Source ID P103.

(b) The annual reports shall be submitted to the Department no later than March 1 for the January 1 through December 31 reporting period of the previous calendar year.

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]**Subpart A - General Provisions****Address.**

Pursuant to 40 CFR Sections 60.4, the submission of all requests, reports, applications, submittals, and other communications required by 40 CFR Parts 60 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 into US EPA's CEDRI or other electronic database by the underlying reporting requirement in lieu of hard-copies:

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

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

[Additional authority for this permit condition is derived from the permittee requesting the Synthetic Minor restriction]

(a) The permittee shall not operate Source ID P103 without the simultaneous operation of the fabric collector (ID C01). The particulate matter including emissions less than 10 microns (PM-10) from Source ID P103 shall be controlled by ID C01.

(b) The permittee shall not operate Source ID P103 without the use of the associated equipment enclosures.

**SECTION D. Source Level Requirements**

(c) The permittee shall operate a water spray at the feed of Source ID P103 at any time Source ID P103 is in operation, unless conditions are such that fugitive emissions are sufficiently controlled without the water spray. If, however, the water spray is incapable of operation due to any reason, Source ID P103 may not be operated.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

During those periods of time when the fabric filter bags in the fabric collector (ID C01) are being shaken, Source ID P103 may not be operated.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.444]

The permittee shall keep on hand a sufficient quantity of spare fabric filter bags for the fabric collector (ID C01) in order to be able to immediately replace any bags requiring replacement.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Under no circumstances shall Source ID P103 and Source ID P101 be operated at the same time. In addition, the damper on the air ventilation line to the source not in use must be closed at all times.

VII. ADDITIONAL REQUIREMENTS.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Source ID P103 is a Barmac grinding system, rated at 4.83 tons per hour, which consists of the following:

- (1) One (1) feed hopper,
- (2) Six (6) conveyors,
- (3) One (1) Barmac model 6900 grinder,
- (4) One (1) screen bank,
- (5) One (1) storage bin,
- (6) One (1) water spray system.

(b) ID C01 is a Pangborn model 1500CN68153 fabric collector.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any component of Source ID P103, with the exception of the air pollution control device (ID C01), can be replaced without obtaining approval by the Department, provided that the replacement equipment is of equal or smaller size and provided that the replacement equipment is of equivalent design and function (i.e., a grinder may be replaced with a grinder). The permittee shall notify the Department, in writing, prior to the replacement.

017 [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.

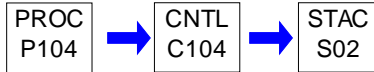
Source ID P103, when processing non-metallic minerals, is subject to 40 CFR Part 60, Subpart 000. The permittee shall comply with all the applicable requirements specified in 40 CFR Sections 60.670 through 60.676.

**SECTION D. Source Level Requirements**

Source ID: P104

Source Name: TEMPERING PANS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission of particulate matter from the exhaust of the fabric collector (ID C104) associated with Source ID P104 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The fabric collector (ID C104) associated with Source ID P104 shall be equipped with instrumentation to monitor the pressure differential across the fabric filter bags on a continuous basis.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the pressure differential across the fabric collector (ID C104) associated with Source ID P104 at least once per week when Source ID P104 is in operation.

(b) The records and other applicable monitoring as required in accordance with the recordkeeping requirements in section B herein shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not operate Source ID P104 without the simultaneous operation of the fabric collector (ID C104). The particulate matter including emissions less than 10 microns (PM-10) from Source ID P104 shall be controlled by ID C104.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand a sufficient quantity of spare fabric filter bags for the fabric collector (ID C104) associated with Source ID P104 in order to be able to immediately replace any bags requiring replacement.

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

(a) Source ID P104 consists of two (2) Clearfield Machine Co. model 7520 tempering pans, rated at 3.34 tons per hour total, which are downstream of the Maximuller and/or Barmac (Source ID P101 and P103) source operations herein.

(b) ID C104 is a Pangborn model 360CT fabric collector.

**SECTION D. Source Level Requirements**

Source ID: P105

Source Name: PERIODIC KILNS 1 - 8 (SHUT-DOWN)

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

[Reserved] No person may permit the emission of particulate matter from each kiln of Source ID P105 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

[Reserved] No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from each kiln of Source ID P105 in a manner such that the concentration in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Reserved] The permittee shall only use natural gas as fuel for each kiln of Source ID P105.

Operation Hours Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Under no circumstance shall any the Source ID P105 kilns be operated unless the permittee obtains prior authorization from the Department.

Throughput Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Reserved] The permittee shall not process more than 3,000 tons of "green" and dried brick total through Source ID P105 in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

[Reserved] The permittee shall keep records of the total amounts of "green" and other dried refractory materials processed through Source ID P105 on a monthly and 12-month rolling basis to verify compliance with the throughput limitation on the equipment associated with Source ID P105.

[Reserved] The records including the background info used to derive the reported values shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

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

[Reserved] The permittee shall submit reports to the Department on an annual basis that include the records of the total amounts of "green" and other dried refractory materials processed through Source ID P105 on a monthly and 12-month rolling basis to verify compliance with the throughput limitation on the equipment associated with Source ID P101.

[Reserved] The annual reports shall be submitted to the Department no later than March 1 for the January 1 through December 31 reporting period of the previous calendar year.

VI. WORK PRACTICE REQUIREMENTS.

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

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

[Reserved] Source ID P105 consists of the eight (8) natural gas fired periodic kilns (#1 - #8) each rated at 2.4 tons per hour.

**SECTION D. Source Level Requirements**

Source ID: P106

Source Name: BATCH DRYER

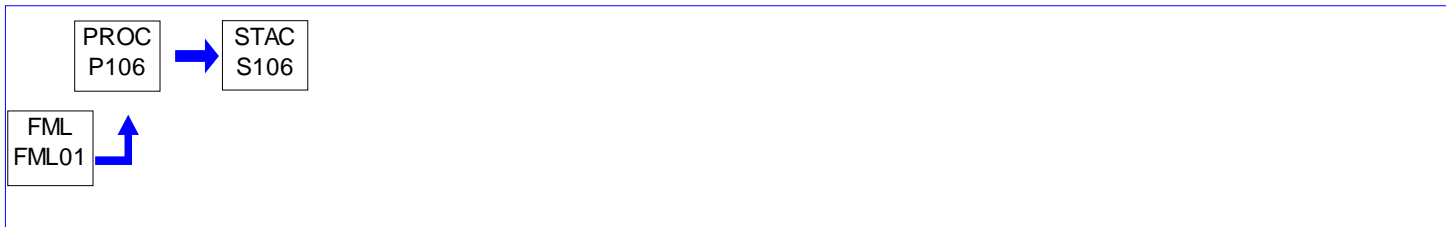
Source Capacity/Throughput:

1.000 Tons/HR

GREEN

5.000 MCF/HR

Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission of particulate matter from Source ID P106 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from Source ID P106 in a manner such that the concentration in the effluent gas exceeds 500 parts per million, by volume, dry basis.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use natural gas as fuel for Source ID P106.

Throughput Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not use Source ID P106 to dry or cure refractory products containing organic resins or additives containing organic Hazardous Air Pollutants (HAP).

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of production info and other types of materials including but may not be limited to intermediates processed by Source ID P106 during each reporting period to verify compliance with the throughput restriction herein in accordance with the recordkeeping requirements in section B herein.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.**

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P106 is a Dwight Hendryx Co. batch dryer, rated at 19.2 tons per hour, natural gas fired, heat feeds to fourteen (14) dryer rooms.

**SECTION D. Source Level Requirements**

Source ID: P107

Source Name: BICKLEY KILNS

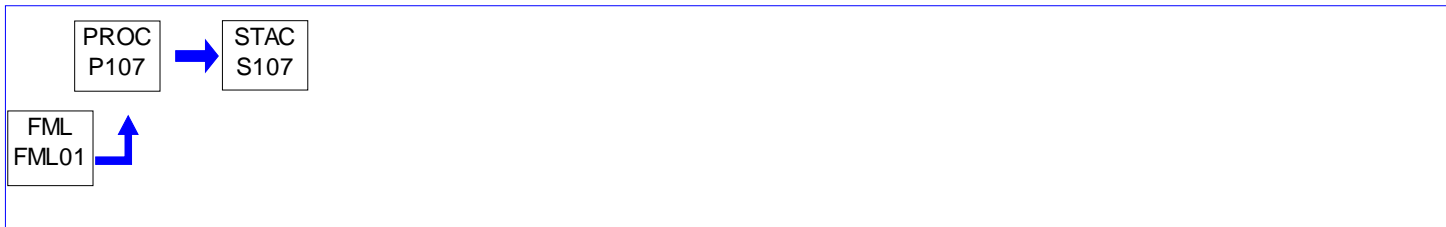
Source Capacity/Throughput:

4.000 Tons/HR

FIREBRICK OTHER

15.000 MCF/HR

Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission of particulate matter from each kiln of Source ID P107 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from each kiln of Source ID P107 in a manner such that the concentration in the effluent gas exceeds 500 parts per million, by volume, dry basis.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not use Source ID P107 to dry or cure refractory products containing organic resins or additives containing organic Hazardous Air Pollutants (HAP).

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use natural gas as fuel for each kiln of Source ID P107.

Throughput Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from the permittee requesting the Synthetic Minor restriction]

The permittee shall not process more than a total of 20,400 tons of dried bricks and other refractory products through Source ID P107 in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

(a) The permittee shall keep records of the total amounts of dried bricks and other refractory product materials processed through Source ID P107 on a monthly and 12-month rolling basis to verify compliance with the throughput limitation on the equipment associated with Source ID P107

(b) The records including the background info used to derive the reported values shall be retained for a minimum of five (5) years and shall be made available to the Department upon request in accordance with the recordkeeping requirements in section B herein.

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

The permittee shall keep records of production info and other types of materials including but may not be limited to intermediates processed by Source ID P107 during each reporting period to verify compliance with the throughput restriction herein in accordance with the recordkeeping requirements in section B herein.

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

(a) The permittee shall submit reports to the Department on an annual basis that include the records of the amount of dried bricks and other refractory materials processed through Source ID P107 on a monthly basis to verify compliance with the throughput limitation in any 12 consecutive month period.

(b) The annual reports shall be submitted to the Department no later than March 1 for the January 1 through December 31 reporting period of the previous calendar year.

VI. WORK PRACTICE REQUIREMENTS.

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

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

Source ID P107 consists of two (2) Bickley kilns (#1 - #2), rated at 7.0 tons per hour total, natural gas fired.

**SECTION D. Source Level Requirements**

Source ID: P108

Source Name: LANLEY DRYERS

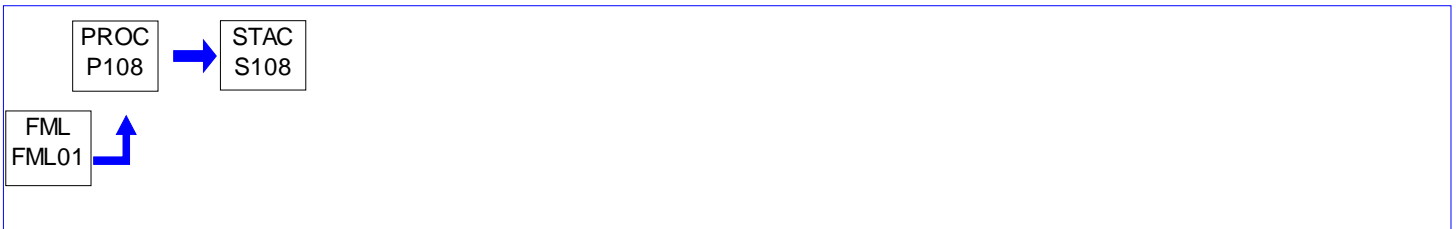
Source Capacity/Throughput:

4.000 Tons/HR

FIREBRICK OTHER

3.000 MCF/HR

Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission of particulate matter from each dryer of Source ID P108 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from each dryer of Source ID P108 in a manner such that the concentration in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use natural gas as fuel for each dryer of Source ID P108.

Throughput Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not use Source ID P108 to dry or cure refractory products containing organic resins or additives containing organic Hazardous Air Pollutants (HAP).

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of production info and other types of materials including but may not be limited to intermediates processed by Source ID P108 during each reporting period to verify compliance with the throughput restriction herein in accordance with the recordkeeping requirements in section B herein.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.**

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P108 consists of two (2) Lanley dryers (#1 - #2), rated at 7.0 tons per hour total, natural gas fired.

**SECTION D. Source Level Requirements**

Source ID: P109

Source Name: BELL KILNS

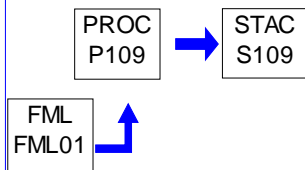
Source Capacity/Throughput:

20.000 Tons/HR

FIREBRICK OTHER

10.000 MCF/HR

Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission of particulate matter from each kiln of Source ID P109 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from each kiln of Source ID P109 in a manner such that the concentration in the effluent gas exceeds 500 parts per million, by volume, dry basis.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not use Source ID P109 to dry or cure refractory products containing organic resins or additives containing organic Hazardous Air Pollutants (HAP).

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall only use natural gas as fuel for each kiln of Source ID P109.

II. TESTING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall provide analyses or samples of the raw materials processed through Source ID P109 upon Department request.

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of production info and other types of materials including but may not be limited to intermediates processed by Source ID P109 during each reporting period to verify compliance with the throughput restriction herein in accordance with the recordkeeping requirements in section B herein.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.**

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

VI. WORK PRACTICE REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall not use Source ID P109 to process raw materials containing sulfur or fluorine.

VII. ADDITIONAL REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

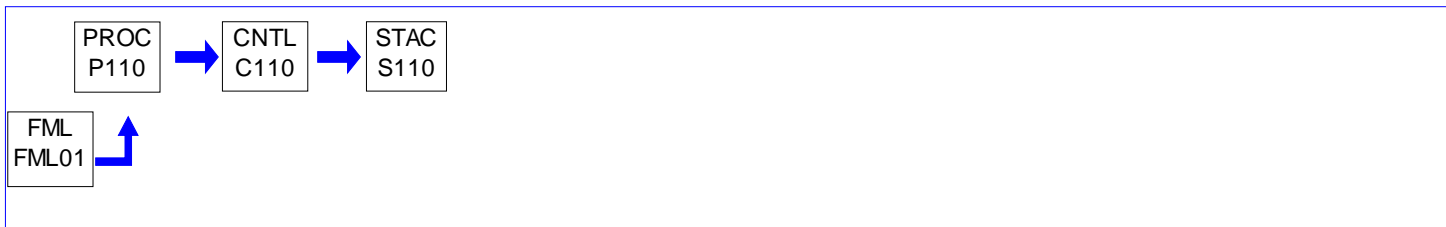
Source ID P109 consists of three (3) Bickley bell kilns (#3 - #5), rated at 1.16 tons per hour total, natural gas fired.

**SECTION D. Source Level Requirements**

Source ID: P110

Source Name: PERIODIC KILNS 9 & 10 (SHUT-DOWN)

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

[Reserved] No person may permit the emission of particulate matter from the exhaust of the afterburner (ID C110) associated with Source ID P110 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

[Reserved] No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from the exhaust of the afterburner (ID C110) associated with Source ID P110 in a manner such that the concentration in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Reserved] The permittee shall only use natural gas as fuel for each kiln of Source ID P110.

Operation Hours Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Under no circumstance shall the Source ID P110 and ID C110 be operated unless the permittee obtains prior authorization from the Department.

II. TESTING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Reserved] The permittee shall provide analyses or samples of the materials processed through Source ID P110 upon Department request.

III. MONITORING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Reserved] The afterburner (ID C110) shall be equipped with a means of continuously monitoring and recording the afterburner exit gas temperature.

IV. RECORDKEEPING REQUIREMENTS.

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

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.**

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

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

[Reserved] The permittee shall not operate Source ID P110 without the simultaneous operation of the afterburner (ID C110). The particulate matter, carbon monoxide, volatile organic compound, and hazardous air pollutant(s) emissions from Source ID P110 shall be controlled by ID C110.

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

[Reserved] Source ID P110 shall be used only for the curing of resin bonded magnesia/carbon and alumina/carbon refractory products containing a maximum of 6% resin (by weight) as well as for the baking of magnesia and alumina refractory products that have been impregnated with petroleum tar at a maximum concentration of 6% (by weight). Additionally, only one of the kilns of Source ID P110 may be in use (excluding loading and unloading operations) at any given time.

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

[Reserved] The retorts or beds into which the tar-impregnated refractory product and coke breeze are placed shall be covered such that the potential for coke breeze to be entrained in kiln exhaust gases is minimized. Additionally, the coke breeze used in baking tar-impregnated refractory products shall be removed from each kiln prior to any occasion upon which that kiln is used to cure resin bonded refractory products.

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

[Reserved] The afterburner (ID C110) shall be activated at the same time as (or before) kiln burners are activated.

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

[Reserved] The afterburner (ID C110) shall be operated such that its exit gas temperature is at least 1400 degrees Fahrenheit for tar-impregnated materials and 1500 degrees Fahrenheit for resin cured materials.

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

[Reserved] Source ID P110 consists of two (2) periodic kilns (#9 - #10), rated at 0.51 tons per hour total, natural gas fired.

[Reserved] ID C110 is an American Technologies Services thermal oxidizer afterburner, burner rated at 1.0 MMBTU/hr, natural gas fired.

**SECTION D. Source Level Requirements**

Source ID: P111

Source Name: HIGH TECH SYSTEM

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission of particulate matter from the exhaust of the fabric collector (ID C111) associated with Source ID P111 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The fabric collector (ID C111) associated with Source ID P111 shall be equipped with instrumentation to monitor the pressure differential across the fabric filter bags on a continuous basis.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the pressure differential across the fabric collector (ID C111) associated with Source ID P111 at least once per week when Source ID P111 is in operation.

(b) The records and the other applicable monitoring info as required in accordance with the recordkeeping requirements in section B herein shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand a sufficient quantity of spare fabric filter bags for the fabric collector (ID C111) associated with Source ID P111 in order to be able to immediately replace any bags requiring replacement.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not operate Source ID P111 without the simultaneous operation of the fabric collector (ID C111). The particulate matter including emissions less than 10 microns (PM-10) from Source ID P111 shall be controlled by ID C111.

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

(a) Source ID P111 is a High tech system, rated at 3.25 tons per hour total, which consists of the following:

- (1) One (1) press,
- (2) One (1) Ribbon Mixer,
- (3) One (1) Lancaster Mixer,
- (4) Four (4) vibratory presses.

(b) ID C111 is a Farr model 645-RAM tube fabric collector, rated at 3000 ACFM.

**SECTION D. Source Level Requirements**

Source ID: P112

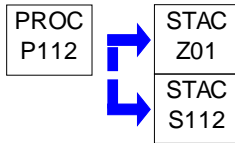
Source Name: PORTABLE CRUSHER

Source Capacity/Throughput:

5.000 Gal/HR

Diesel Fuel

100.000 Tons/HR

**I. RESTRICTIONS.****Operation Hours Restriction(s).**

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority is also derive from 25 Pa. Code Section 127.444]

The Source ID P112 portable crusher engine shall not be operated longer than 100 hours in any twelve consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep sufficient records and supporting info to verify compliance with the operating limitations herein in accordance with the recordkeeping requirements in section B herein.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority is also derive from 25 Pa. Code Section 127.444]

The Source ID P112 portable crusher engine shall be installed, operated and maintained in accordance with the manufacturer's specifications and good operating practices.

VII. ADDITIONAL REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

**SECTION D. Source Level Requirements**

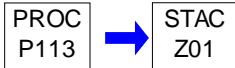
Source ID P112 is a portable crusher rated at 2.8 tons per hour and equipped with a diesel engine (Detroit 74 HP).

**SECTION D. Source Level Requirements**

Source ID: P113

Source Name: UNPAVED HAUL ROADS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

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

The permittee shall keep posted a speed limit of 10 miles per hour for all vehicles traveling on Source ID P113.

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

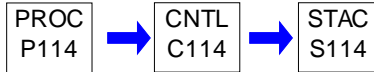
Source P113 is 0.75 mile of unpaved haul roads.

**SECTION D. Source Level Requirements**

Source ID: P114

Source Name: BRICK CUTTING & GRINDING SAWS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission of particulate matter from the exhaust of the fabric collector (ID C114) associated with Source ID P114 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The fabric collector (ID C114) associated with Source ID P114 shall be equipped with instrumentation to monitor the pressure differential across the fabric filter bags on a continuous basis.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the pressure differential across the fabric collector (ID C114) associated with Source ID P114 at least once per week when Source ID P114 is in operation.

(b) The records and the other applicable monitoring info as required in accordance with the recordkeeping requirements in section B herein shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand a sufficient quantity of spare fabric filter bags for the fabric collector (ID C114) associated with Source ID P114 in order to be able to immediately replace any bags requiring replacement.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not operate Source ID P114 without the simultaneous operation of the fabric collector (ID C114). The particulate matter emissions from Source ID P114 shall be controlled by ID C114.

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

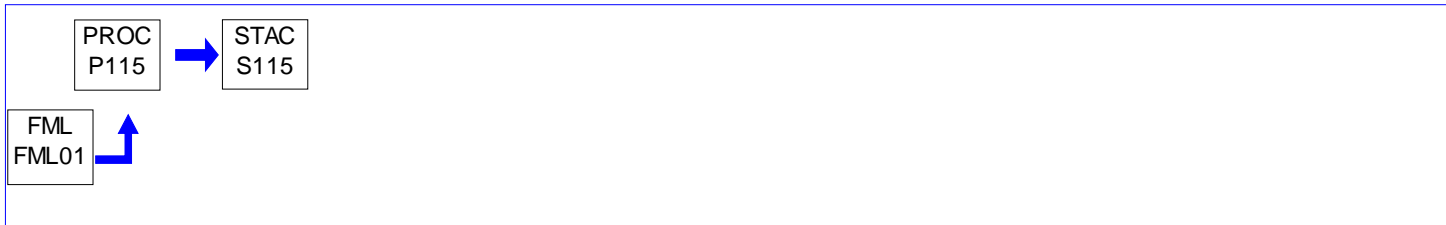
- (a) Source ID P114 is a brick cutting and grinding operation (Clipper Room).
- (b) ID C114 is a Fuller model #4 Unifilter fabric collector.

**SECTION D. Source Level Requirements**

Source ID: P115

Source Name: LAB KILNS

Source Capacity/Throughput:

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

No person may permit the emission of particulate matter from each kiln of Source ID P115 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from each kiln of Source ID P115 in a manner such that the concentration in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

The permittee shall not use Source ID P115 to dry or cure refractory products containing organic resins or additives containing organic Hazardous Air Pollutants (HAP).

Fuel Restriction(s).**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel for each kiln of Source ID P115.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of production info and other types of materials including but may not be limited to intermediates processed by Source ID P115 during each reporting period to verify compliance with the throughput restriction herein in accordance with the recordkeeping requirements in section B herein

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.**

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

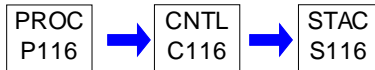
Source ID P115 consists of three (3) Bickley lab kilns, rated at 100 pounds per hour total, natural gas fired.

**SECTION D. Source Level Requirements**

Source ID: P116

Source Name: WOODWORKING OPERATION

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission of particulate matter from the exhaust of the fabric collector (ID C116) associated with Source ID P116 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Source ID C116 baghouse shall be equipped with a continuous gauge to measure the differential pressure across the fabric filter bags.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the pressure differential across the fabric collector (ID C116) associated with Source ID P116 at least once per week when Source ID P116 is in operation after instrumentation to monitor the pressure drop across ID C116 is installed.

(b) The records and other applicable monitoring info as required in accordance with the requirements in section B herein shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand a sufficient quantity of spare fabric filter bags for the fabric collector (ID C116) associated with Source ID P116 in order to be able to immediately replace any bags requiring replacement.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not operate Source ID P116 without the simultaneous operation of the fabric collector (ID C116). The particulate matter including emissions less than 10 microns (PM-10) from Source ID P116 shall be controlled by ID C116.

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

- (a) Source ID P116 is a woodworking operation.
- (b) ID C116 is a Fuller model #4 Unifilter fabric collector.

**SECTION D. Source Level Requirements**

Source ID: P117

Source Name: #10 PAN AND #13 MIXER

Source Capacity/Throughput:

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

No person may permit the emission of particulate matter from the exhaust of the dust collector (ID C117) associated with Source ID P117 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

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

The Source ID C117 baghouse shall be equipped with a continuous gauge to measure the differential pressure across the fabric filter bags.

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

(a) The permittee shall keep records of the pressure differential across the fabric collector (ID C117) associated with Source ID P117 at least once per week when Source ID P117 is in operation after instrumentation to monitor the pressure drop across ID C117 is installed.

(b) The records and other applicable monitoring info as required in accordance with the requirements in section B herein shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall not operate Source ID P117 without the simultaneous operation of the dust collector (ID C117). The particulate matter emissions from Source ID P117 shall be controlled by ID C117.

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

The permittee shall keep on hand a sufficient quantity of spare fabric filter bags for the fabric collector (ID C117) associated with Source ID P117 in order to be able to immediately replace any bags requiring replacement.

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

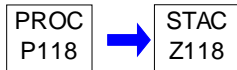
- (a) Source ID P117 consists of the #10 pan and the #13 mixer.
- (b) ID C117 is a Pactecon mechanical dust collector.

**SECTION D. Source Level Requirements**

Source ID: P118

Source Name: PARTS WASHERS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.63]

The permittee shall keep records of Certified Product Data Sheets (CPDSs) or Material Safety Data Sheets (MSDSs) that identify the VOC and HAP(s) content of Source ID P118.

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

The permittee shall maintain for a minimum of five (5) years and present to the Department upon request the following information:

- (1) The name and address of the solvent supplier,
- (2) The type of solvent including the product or vendor identification number,
- (3) The vapor pressure of the solvent measured in millimeters of mercury (mm Hg) at 68 degrees Fahrenheit.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.**# 003 [25 Pa. Code §129.63]****Degreasing operations**

Each parts washer of Source ID P118 shall be operated in accordance with the following procedures:

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

**SECTION D. Source Level Requirements**

- (2) Flushing of parts using a flexible hose or other flushing device shall be performed only within the cold cleaning machine. The solvent spray shall be a solid fluid stream, not an atomized or shower spray.
- (3) Sponges, fabric, wood, leather, paper products, and other absorbent materials may not be cleaned in the cold cleaning machine.
- (4) Air agitated solvent baths may not be used.
- (5) Spills during solvent transfer and use of cold cleaning machine shall be cleaned up immediately.

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

Source ID P118 is subject to 25 Pa. Code Section 129.63(a) (Degreasing Operations - Cold Cleaning Machines). The permittee shall comply with all applicable requirements specified in 25 Pa. Code Section 129.63(a).

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

Source ID P118 consists of the following two (2) parts washers:

- (a) One (1) homemade parts washer, 24" x 36" x 16" sink with drain valve and lid,
 (b) One (1) Safety-Kleen model 17.402 parts washer, remote reservoir recirculatory system, 30 gallon reservoir, 18" x 26" x 4" sink.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.63]

The vapor pressure of VOC containing solvent shall be less than 1.0 millimeter of mercury (mm Hg) measured at 20 degrees Celsius (68 degrees Fahrenheit).

007 [25 Pa. Code §129.63]**Degreasing operations**

Each parts washer of Source ID P118 shall have a permanent, conspicuous label summarizing all required operating procedures specified in Condition #003 for Source ID P118. In addition, the label shall include the following discretionary good operating practices:

- (1) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining.
- (2) During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.
- (3) Work area fans should be located and positioned so that they do not blow across the opening of the degreaser unit.

008 [25 Pa. Code §129.63]**Degreasing operations**

Each parts washer of Source ID P118 shall be equipped with a cover that shall be closed at all times except during the cleaning of parts or the addition or removal of solvent. For the remote reservoir parts washer of Source ID P118, a perforated drain with a diameter of not more than 6 inches shall constitute an acceptable cover.

009 [25 Pa. Code §129.63]**Degreasing operations**

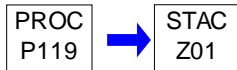
The immersion parts washer of Source ID P118 shall have a freeboard ratio of 0.50 or greater.

**SECTION D. Source Level Requirements**

Source ID: P119

Source Name: BRICK PRESSES & PRESS MIXERS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

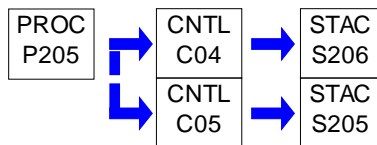
Source ID P119 consists of twelve (12) brick presses and nine (9) press mixers.

**SECTION D. Source Level Requirements**

Source ID: P205

Source Name: TWO (2) MIXING OTHER SOURCE OPERATIONS HYDRECON

Source Capacity/Throughput: 167.000 Lbs/HR RAW MATERIALS

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

001 [25 Pa. Code §123.13]

Processes

(a) No person may permit the emission of particulate matter from the exhaust of the fabric collector (ID C05) associated with Source ID P205 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

(b) No person may permit the emission of particulate matter from the exhaust of the fabric collector (ID C04) associated with Source ID P205 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

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 permittee shall comply with all applicable requirements as specified in 40 CFR Part 60 Subpart OOO Section 60.672 for Source ID P205 when Source ID P205 is processing non-metallic minerals unless otherwise exempt according to 40 CFR Part 60 Subpart OOO Sections 60.670 and 60.671.

Throughput Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.444]

(a) The permittee shall not process more than 1,040 tons of materials on a combined total basis through Source IDs P205 and P206 in any twelve consecutive month period.

(b) In addition, no more than 8000 pounds of materials shall be processed by Source IDs P205 and P206 on a combined total daily basis.

(c) The permittee shall not use any of the above source operations to process or produce any nonclay refractory material products containing chromium, such as chrome-magnesite, magnesia-chrome, and chrome-alumina or any other chromium compounds, unless prior approval is obtained from the Department.

II. TESTING REQUIREMENTS.

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.675]

**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants
Test methods and procedures.**

(a) The permittee shall comply with all applicable testing requirements as specified in 40 CFR Part 60 Subpart OOO Section 60.675 for Source ID P205 when Source ID P205 is processing non-metallic minerals unless otherwise exempt according to 40 CFR Part 60 Subpart OOO Sections 60.670 and 60.671.

(b) The permittee need not, however, perform any opacity testing or stack testing unless specifically requested to do so by the Department or the Environmental Protection Agency.

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

- (a) The baghouse/fabric collector (ID C05) associated with Source ID P205 shall be equipped with instrumentation to monitor the pressure differential across the fabric filter bags on a continuous basis.
- (b) The baghouse/fabric collector (ID C06) associated with Source ID P205 shall be equipped with instrumentation to monitor the pressure differential across the fabric filter bags on a continuous basis.

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

- (a) The permittee shall keep records of the total weight of materials processed by Source ID P205 on a monthly basis including the total daily weights for each calendar and operating day and the 12-month rolling sum total calculations for each calendar and operating month to verify compliance with the throughput limitations herein.
- (b) In addition, the permittee shall keep records of the composition of all refractory and other raw materials processed by Source ID P205, including the material safety data sheets, supplier formulations, and other info sufficient to verify compliance with the chromium-compound throughput restrictions herein.
- (c) These records including the background info and supporting calculations shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

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

- (a) The permittee shall keep records of the pressure differential across the fabric collector (ID C05) associated with Source ID P205 at least once per day when Source ID P205 is in operation. If none of the sources are put into operation during the entire day, the monitoring shall resume beginning on the next operating day.
- (b) As applicable, the permittee shall also keep records of the pressure differential across the fabric collector (ID C04) associated with Source ID P205 at least once per day when Source ID C04 is in operation as well as a description explaining why Source IDs C04 and C05 were both used concurrently for the control of emissions from Source ID P205.
- (c) The required readings as well as the other monitoring info as required in accordance with section B herein shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants****Reporting and recordkeeping.**

The permittee shall comply with all applicable recordkeeping requirements as specified in 40 CFR Part 60 Subpart OOO Section 60.676 for Source ID P205 when Source ID P205 is processing non-metallic minerals and unless otherwise exempt according to 40 CFR Part 60 Subpart OOO Sections 60.670 and 60.671.

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

- (a) The permittee shall submit reports to the Department on an annual basis that include records of the total amounts and types of materials processed through Source ID P205 on a monthly basis as well as the daily and 12-month rolling totals to verify compliance with the throughput limitations herein.
- (b) The annual reports shall be submitted to the Department no later than March 1 (for the January 1 through December 31 reporting period of the previous year).

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]**Subpart A - General Provisions****Address.**

**SECTION D. Source Level Requirements**

Pursuant to 40 CFR Sections 60.4, the submission of all requests, reports, applications, submittals, and other communications required by 40 CFR Parts 60 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 into US EPA's CEDRI or other electronic database by the underlying reporting requirement in lieu of hard-copies:

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

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

[Additional authority for this permit condition is derived from 25 Pa. Code section 127.444]

(a) The permittee shall not operate Source ID P205 without the simultaneous operation of the fabric collector ID C05. The particulate matter less than 10 micron (PM-10) emissions from Source ID P205 shall be controlled by ID C05. Source ID C04 may be used in conjunction with the Source ID C05 baghouse by utilizing the dampening system in accordance with the manufacturer's specifications and good operating practices

(b) In addition, the permittee shall not operate Source ID P205 without the use of the associated equipment enclosures.

(c) In addition, the permittee shall operate a water spray for the applicable mixer associated with Source ID P205 at any time that plastics extruder is in operation, unless a product is processed such that fugitive emissions are sufficiently controlled without the water spray, such as moisture content. If, however, the water spray is incapable of operation due to any reason, Source ID P205 may not be operated until corrective actions are completed.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.444]

During those periods of time when the fabric filter bags in the fabric collectors are being shaken, Source ID P205 may not be operated.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.444]

The permittee shall keep on hand a sufficient quantity of spare fabric filter bags for the fabric collector ID C05 (and C04 as necessary) in order to be able to immediately replace any bags requiring replacement.

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

Under no circumstances shall the bagging and plastics extruder equipment associated with Source ID P205 be operated concurrently with one another nor at the same time with the Source ID P206 equipment authorized herein. In addition, the damper on the air ventilation line to the sources not in use must be closed at all times and operated in accordance with the manufacturer's specifications and good operating practices.

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

(a) Source ID P205 consists of the dry castable bagging/machine as well as the fireclay plastics refractory operation (J.H. Day), including mixing equipment and other sources, such as skips, elevators, conveyors, etc.

**SECTION D. Source Level Requirements**

(b) ID C05 is the Pangborn 168 fabric collector (s/n 19KX14-691) and ID C04 is the Pangborn 120 s/n 17KX14-691) which shall be installed, operated and maintained in accordance with the manufacturer's specification and good operating practices including but may not be limited to the work practices and other requirements herein.

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

Any component of Source ID P205, with the exception of the air pollution control device (ID C05 or C04), can be replaced without obtaining approval by the Department, provided that the replacement equipment is of equal or smaller size and provided that the replacement equipment is of equivalent design and function (i.e., a conveyor may be replaced with a conveyor). The permittee shall notify the Department, in writing, prior to the replacement.

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

Under no circumstance shall the Hydrocon crusher equipment that may have been installed/vented to the baghouses be operated without prior authorization from the Department.

018 [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.**

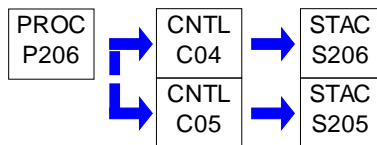
Source ID P205, when processing non-metallic minerals, is subject to 40 CFR Part 60, Subpart OOO, unless otherwise exempt according to 40 CFR Part 60, Subpart OOO Sections 60.670 and 60.671. The permittee shall comply with all the applicable requirements specified in 40 CFR Sections 60.670 through 60.676.

**SECTION D. Source Level Requirements**

Source ID: P206

Source Name: MORTAR MACHINE MIXING OPERATION HYDRECON

Source Capacity/Throughput: 167.000 Lbs/HR RAW MATERIALS

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

001 [25 Pa. Code §123.13]

Processes

(a) No person may permit the emission of particulate matter from the exhaust of the fabric collector (ID C05) associated with Source ID P206 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

(b) No person may permit the emission of particulate matter from the exhaust of the fabric collector (ID C04) associated with Source ID P206 into the outdoor atmosphere in a manner such that the concentration in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

Throughput Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.444]

(a) The permittee shall not process more than 1,040 tons of materials on a combined total basis through Source IDs P205 and P206 in any twelve consecutive month period.

(b) In addition, no more than 8000 pounds of materials shall be processed by Source IDs P205 and P206 on a combined total daily basis.

(c) The permittee shall not use any of the above source operations to process or produce any nonclay refractory material products containing chromium, such as chrome-magnesite, magnesia-chrome, and chrome-alumina or any other chromium compounds, unless prior approval is obtained from the Department.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The baghouse/fabric collector (ID C05) associated with Source ID P206 shall be equipped with instrumentation to monitor the pressure differential across the fabric filter bags on a continuous basis.

(b) The baghouse/fabric collector (ID C06) associated with Source ID P206 shall be equipped with instrumentation to monitor the pressure differential across the fabric filter bags on a continuous basis.

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

(a) The permittee shall keep records of the pressure differential across the fabric collector (ID C05) associated with Source ID P206 at least once per day when Source ID P206 is in operation. If none of the sources are put into operation during the entire day, the monitoring shall resume beginning on the next operating day.

(b) As applicable, the permittee shall also keep records of the pressure differential across the fabric collector (ID C04) associated with Source ID P206 at least once per day when Source ID C04 is in operation as well as a description explaining why Source IDs C04 and C05 were both used concurrently for the control of emissions from Source ID P206.

(c) The required readings as well as the other monitoring info as required in accordance with section B herein shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

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

(a) The permittee shall keep records of the total weight of materials processed by Source ID P206 on a monthly basis including the total daily weights for each calendar and operating day and the 12-month rolling sum total calculations for each calendar and operating month to verify compliance with the throughput limitations herein.

(b) In addition, the permittee shall keep records of the composition of all refractory and other raw materials processed by Source ID P206, including the material safety data sheets, supplier formulations, and other info sufficient to verify compliance with the chromium-compound throughput restrictions herein.

(c) These records including the background info and supporting calculations shall be retained for a minimum of five (5) years and shall be made available to the Department upon request in accordance with the recordkeeping requirements in section B herein.

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

(a) The permittee shall submit reports to the Department on an annual basis that include records of the total amounts and types of materials processed through Source ID P206 on a monthly basis as well as the daily and 12-month rolling totals to verify compliance with the throughput limitations herein.

(b) The annual reports shall be submitted to the Department no later than March 1 (for the January 1 through December 31 reporting period of the previous year).

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

Under no circumstances shall the bagging and plastics extruder equipment associated with Source ID P205 be operated concurrently with one another nor at the same time with the Source ID P206 equipment authorized herein. In addition, the damper on the air ventilation line to the sources not in use must be closed at all times and operated in accordance with the manufacturer's specifications and good operating practices.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.444]

The permittee shall keep on hand a sufficient quantity of spare fabric filter bags for the fabric collector ID C05 (and C04 as necessary) in order to be able to immediately replace any bags requiring replacement.

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

**SECTION D. Source Level Requirements**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.444]

During those periods of time when the fabric filter bags in the fabric collectors are being shaken, Source ID P206 may not be operated.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code section 127.444]

(a) The permittee shall not operate Source ID P206 without the simultaneous operation of the fabric collector ID C05. The particulate matter less than 10 microns (PM-10) emissions from Source ID P206 shall be controlled by ID C05. Source ID C04 may be used in conjunction with the Source ID C05 baghouse by utilizing the dampening system in accordance with the manufacturer's specifications and good operating practices

(b) In addition, the permittee shall not operate Source ID P206 without the use of the associated equipment enclosures.

(c) In addition, the permittee shall operate a water spray for the applicable mixer associated with Source ID P205 at any time that plastics extruder is in operation, unless a product is processed such that fugitive emissions are sufficiently controlled without the water spray, such as moisture content. If, however, the water spray is incapable of operation due to any reason, Source ID P206 may not be operated until corrective actions are completed.

VII. ADDITIONAL REQUIREMENTS.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any component of Source ID P206, with the exception of the air pollution control device (ID C05 or C04), can be replaced without obtaining approval by the Department, provided that the replacement equipment is of equal or smaller size and provided that the replacement equipment is of equivalent design and function (i.e., a conveyor may be replaced with a conveyor). The permittee shall notify the Department, in writing, prior to the replacement.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P206 consists of the Eirich mixing operation (Mortar Machine), including mixing equipment and other sources, such as skips, elevators, conveyors, etc.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Under no circumstance shall the Hydrecon crusher equipment that may have been installed/vented to the baghouses be operated without prior authorization from the Department.



SECTION E. Source Group Restrictions.

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.



SECTION H. Miscellaneous.

The following air contaminant sources are considered to the Department to be insignificant with regards to air contaminant emissions and determined to be exempt from permitting requirements. However, this determination does not exempt the sources from compliance with all applicable State and Federal regulations, including all applicable regulations specified in 25 Pa. Code Chapters 121-145:

- (a) One (1) propane storage tank, 1000 gallon capacity,
- (b) One (1) waste oil storage tank, 275 gallon capacity,
- (c) One (1) phosphoric acid tank, 1000 gallon capacity,
- (d) Maintenance activity,
- (e) Main plant roof vents,
- (f) Clay storage piles (open and enclosed).



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