



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: February 11, 2025

Effective Date: April 28, 2026

Revision Date: April 13, 2026

Expiration Date: October 28, 2026

Revision Type: Extension

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

The regulatory or statutory authority for each plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

Plan Approval No. 63-00916C

Federal Tax Id - Plant Code: 25-1585501-1

Owner Information

Name: PERRYMAN CO

Mailing Address: 213 VANDALE DR
HOUSTON, PA 15342-1250

Plant Information

Plant: PERRYMAN CO/TITANIUM CONVERSION FAC

Location: 63 Washington County 63948 North Strabane Township

SIC Code: 3356 Manufacturing - Nonferrous Rolling And Drawing, Nec

Responsible Official

Name: ERIK K SCHOCH

Title: EHS MANAGER

Phone: (878) 787 - 7884

Email: eschooch@perrymanco.com

Plan Approval Contact Person

Name: ERIK SCHOCH

Title: EHS MANAGER

Phone: (878) 787 - 7884

Email: eschoch@perrymanco.com

[Signature] _____

MARK R. GOROG, P.E., ENVIRONMENTAL PROGRAM MANAGER, SOUTHWEST REGION



Plan Approval Description

This plan approval is for five (5) 21 MMBtu/hr natural gas fired low-NOx furnaces manufactured by ESA Pyronics model EMB-5-SIK-DA-F-CH4-E-H-5/H7-E, one (1) dry abrasive cutoff machine equipped with a 15,000 ACFM cartridge dust collector with an efficiency of 99.9% manufactured by Imperial Systems CMAXX model CM020, one (1) surfaced grinding machine equipped with a 15,000 ACFM cartridge dust collector with an efficiency of 99.9% manufactured by Imperial Systems CMAXX model CM020, one (1) spark ignition 277.6 HP turbocharged emergency engine manufactured by Kohler model KG10V08T-6DGS, one (1) 2,000 gallon crossflow cooling tower manufactured by SPX cooling technologies model NC8409UAN, one (1) sink on drum part cleaner with 30 gallon capacity, and paved haul roads. This equipment is located in the new titanium forging building which is separate from the titanium conversion facility.

The modification of this plan approval, on November 19, 2025, will allow for the shakedown period since construction is complete at the facility.

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SECTION A. Table of Contents

Section A. Facility/Source Identification

Table of Contents
Plan Approval Inventory List

Section B. General Plan Approval Requirements

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

Section C. Site Level Plan Approval Requirements

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

Section D. Source Level Plan Approval Requirements

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

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

Section E. Source Group Restrictions

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

Section F. Alternative Operating Scenario(s)

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



SECTION A. Table of Contents

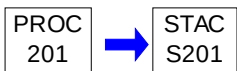
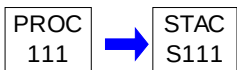
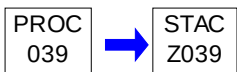
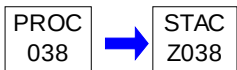
F-III: Monitoring Requirements
F-IV: Recordkeeping Requirements
F-V: Reporting Requirements
F-VI: Work Practice Standards
F-VII: Additional Requirements

Section G. Emission Restriction Summary

Section H. Miscellaneous

**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
036	DRY ABRASIVE CUTOFF MACHINE		
037	SURFACE GRINDING MACHINE		
038	2,000 GPM COOLING TOWER		
039	30 GALLON COLD PARTS CLEANER		
111	277.6 HP EMERGENCY ENGINE NG OR LPG		
201	21 MMBTU/HR FURNACE		
202	21 MMBTU/HR FURNACE		
203	21 MMBTU/HR FURNACE		
204	21 MMBTU/HR FURNACE		
205	21 MMBTU/HR FURNACE		
701	TRUCK OPERATIONS		
C036	15,000 CFM DUST COLLECTION SYSTEM		
C037	SURFACE GRINDING MACHINE DUST COLLECTION SYSTEM		
S036	DRY ABRASIVE CUTOFF MACHINE STACK		
S037	SURFACE GRINDING MACHINE STACK		
S111	EMERGENCY ENGINE STACK		
S201	21 MMBTU/HR FURNACE STACK		
S202	21 MMBTU/HR FURNACE STACK		
S203	21 MMBTU/HR FURNACE STACK		
S204	21 MMBTU/HR FURNACE STACK		
S205	21 MMBTU/HR FURNACE STACK		
Z038	COOLING TOWER FUGITIVES		
Z039	COLD PARTS CLEANER FUGITIVES		
Z701	TRUCK OPERATIONS FUGITIVES		

PERMIT MAPS

**PERMIT MAPS**

PROC
202 → STAC
S202

PROC
203 → STAC
S203

PROC
204 → STAC
S204

PROC
205 → STAC
S205

PROC
701 → STAC
Z701

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

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

#002 [25 Pa. Code § 127.12b (a) (b)]**Future Adoption of Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Plan Approval Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

(a) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

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

**SECTION B. General Plan Approval Requirements**

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

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

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

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

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

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

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

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

(a) The permittee, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

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

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

Regional Air Program Manager

PA Department of Environmental Protection

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

#012 [25 Pa. Code § 127.12(a)(9) & 40 CFR Part 68]**Risk Management**

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

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

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

**SECTION B. General Plan Approval Requirements**

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

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

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

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

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

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

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

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

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

No person may permit air pollution as that term is defined in the act. [25 Pa Code §121.7]

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

The permittee may not permit the emission into the outdoor atmosphere of a fugitive air contaminant contrary to 25 Pa Code §123.1. [25 Pa Code §123.1]

003 [25 Pa. Code §123.13]**Processes**

The permittee may not permit the emission into the outdoor atmosphere of particulate matter from a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot. [25 Pa Code §123.13]

004 [25 Pa. Code §123.2]**Fugitive particulate matter**

The permittee may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in §123.1(a)(1)-(9) if the emissions are visible at the point the emissions pass outside the permittee's property. [25 Pa Code §123.2]

005 [25 Pa. Code §123.21]**General**

No person may permit the emission into the outdoor atmosphere of sulfur dioxides from a source in a manner that the concentration of the sulfur dioxides, expressed as SO₂, in the effluent gas exceeds 500 part per million, by volume, dry basis. [25 Pa Code §123.21(b)]

006 [25 Pa. Code §123.31]**Limitations**

The permittee may not allow into the outdoor atmosphere of any malodorous air contaminants from any sources, in such a manner that the malodors are detectable outside the permittee's property. [25 Pa Code §123.31]

007 [25 Pa. Code §123.41]**Limitations**

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

- (1) Equal to or greater than 20% for a period or periods aggregating more than 3 minutes in any 1 hour.
 - (2) Equal to or greater than 60% at any time.
- [25 Pa Code §123.41]

008 [25 Pa. Code §123.42]**Exceptions**

The limitations of §123.41 (relating to limitations) shall not apply to a visible emission in any of the following instances:

- (1) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
 - (2) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
 - (3) When the emission results from sources specified in §123.1(1)-(9) (relating to prohibition of certain fugitive emissions).
 - (4) N/A
- [25 Pa Code §123.42].

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

If, at any time, the Department has cause to believe that air contaminant emissions from the sources listed in this plan

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

approval may be in excess of the limitations specified in or established pursuant to this plan approval or the permittee's operating permit, the permittee may be required to conduct test methods and procedures deemed necessary by the Department to determine the actual emissions rate. Such testing shall be conducted in accordance with 25 Pa Code Chapter 139, where applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the company that testing is required.

[25 Pa Code §127.12b]

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

Performance testing shall be conducted as follows:

(a) The permittee shall submit two hard copies and one electronic copy of a pre-test protocol to the Department for review within 60 days of plan approval issuance. All proposed performance test methods shall be identified in the pre-test protocol and approved by the Department prior to testing.

(b) The permittee shall notify the Regional Air Quality Manager and Division of Source Testing and Monitoring at least 15 days prior to any performance test so that an observer may be present at the time of the test. This notification may be sent by email. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(c) Pursuant to 40 CFR Part 60.8(a), a complete test report shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emission test program.

(d) Pursuant to 25 Pa Code Section 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 non-compliance 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 Section 139.53(a)(1) and 139.53(a)(3) all hard copy submittals shall be sent to the Pennsylvania Department of Environmental Protection, Air Quality Program, 400 Waterfront Drive, Pittsburgh, PA 15222 with deadlines verified through document postmarks. Electronic submittals shall be sent to RA-epstacktesting@pa.gov. Alternatively, electronic copies may be provided on a CD along with hard copy submittals.

[25 Pa Code §127.12b and §139.11]

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

Visible emissions may be measured using either of the following:

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

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

[25 Pa Code §123.43]

**SECTION C. Site Level Plan Approval Requirements****# 012 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

A facility-wide inspection shall be conducted at a minimum of once each day at the facility by the owner/operator. The facility-wide inspection shall be conducted for the presence of the following:

- (a) Visible stack emissions.
- (b) Fugitive emissions.
- (c) Potentially objectionable odors at the property line.

These observations are to ensure continued compliance with source-specific visible emissions limitations, fugitive emissions prohibited under 25 Pa Code §§123.1 or 123.2, and malodors prohibited under 25 Pa Code 123.31. Observations for visible stack emissions shall be conducted during daylight and all observations shall be conducted for all sources in operation at the time of the facility-wide inspection. If visible stack emissions, fugitive emissions, or potentially objectionable odors are apparent, the owner/operator shall take corrective action. Records of each inspection shall be maintained in a log and at the minimum include the date, time, name, and title of the observer, along with any corrective actions taken as a result.

[25 Pa Code §127.12b]

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

The permittee shall maintain the following comprehensive and accurate records:

- (a) Facility-wide emissions on a 12-month rolling basis for NO_x, CO, SO_x, VOC, PM, PM₁₀, PM_{2.5}, total HAPs, and CO₂e.
- (b) Results of facility-wide inspections for visible stack emissions, fugitive emissions, and/or potentially objectionable odors including the date, time, name, and title of the observer, along with any corrective actions taken as a result.
- (c) Copies of the manufacturer's recommended maintenance schedule for each air source and air cleaning device.
- (d) All maintenance performed on each source and air cleaning device.

[25 Pa Code §127.12b]

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

All logs and required records shall be maintained on site, or at an alternative location acceptable to the Department, for a minimum of five years and shall be made available to the Department upon request.

[25 Pa Code §127.12b]

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

Malfunctions reporting shall be conducted as follows:

- (a) The owner/operator shall report each malfunction that occurs at this facility that poses an imminent and substantial danger to the public health and safety or the environment or which it should reasonably believe may results in citizen complaints to the Department. For purposes of this condition a malfunction is defined as any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment or source to operate in a normal or usual manner that may result in an increase in the emission of air contaminants. Examples of malfunctions may include, but are not limited to large dust plumes, heavy smoke, a spill or release that results in a malodor that is detectable outside the property of the person on whose land the source is being operated.
- (b) When the malfunction poses an imminent and substantial danger to the public health and safety, potential harm to the environment, the permittee shall report the incident to the Department within one hour of discovery. The permittee shall also notify the Department within one hour, when corrective measures have been accomplished.

All other malfunctions that must be reported under subsection (a) shall be reported to the Department no later than the next business day.

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

(c) Initial reporting of the malfunction shall identify the following items to the extent known:

- (1) Name and location of the facility.
- (2) Nature and cause of the malfunction.
- (3) Time when the malfunction or breakdown was first observed.
- (4) Expected duration or increased emissions.
- (5) Estimated rate of emissions.

(d) If requested by the Department, the permittee shall submit a full written report to the Department including the final determinations of the items identified in and the corrective measures taken on the malfunction. The report shall be submitted within 15 days of the Department's request or accomplishing corrective measures, whichever is later.

(e) Malfunctions shall be reported to the Department by email (addresses will be provided by the Department) or at the following address:

PA DEP
Office of Air Quality
400 Waterfront Drive
Pittsburgh, PA 15222-4745
412-442-4000 [25 Pa Code §127.12b]

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

In accordance with 25 Pa Code §135.3, the owner or operator of a facility shall submit to the Department via AES*Online or AES*XML at www.depgreenport.state.pa.us/ by March 1st of each year, a facility inventory report for the preceding calendar year for all sources regulated under this plan approval. The inventory report shall include all emissions information for all sources operated during the preceding calendar year. Emissions data including, but not limited to, the following shall be reported:

- (a) NO_x
- (b) CO
- (c) SO_x
- (d) PM₁₀
- (e) PM_{2.5}
- (f) VOC
- (g) Speciated HAP
- (h) Total HAP
- (i) CO₂
- (j) CH₄
- (k) N₂O [25 Pa Code §127.12b]

VI. WORK PRACTICE REQUIREMENTS.**# 017 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall construct, operate, and maintain all air contamination sources and air cleaning devices authorized under this Plan Approval in accordance with the manufacturer's specifications and recommended maintenance schedules.
[25 PA Code 127.12b]

VII. ADDITIONAL REQUIREMENTS.**# 018 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Air contamination sources and air cleaning devices authorized for construction and initial operation under this plan approval include:



SECTION C. Site Level Plan Approval Requirements

- Five (5) furnaces with a total individual furnace heat capacity of 21 MMBtu/hr that consist of eighteen (18) burners in each furnace manufactured by ESA Pyronics International model EMB-5-SIK-DA-F-CH4-E-H-5/H7-E with a turndown ratio of 8:1 that consume 20,600 scf natural gas per furnace per hour equipped with gas flow meters (Source ID: 201-205):
 - o Twelve (12) 1.0 MMBtu/hr low-NOx burners equipped with flameless gas lances.
 - o Six (6) 1.5 MMBtu/hr low-NOx burners equipped with flameless gas lances.
- One (1) dry abrasive cutoff machine manufactured by Braun Maschinenfabrik model TS 16L (Source ID: 036) equipped with a 15,000-cfm Inertial Cyclone manufactured by Imperial Systems model HE60-10 and a Cartridge Dust Collection System manufactured by Imperial Systems CMAXX model CM020 with a MERV 15 efficiency rating that have a combined efficiency of 99.9% down to 0.5 microns and are guaranteed to emit less than 0.005 gf/dscf (Source ID: C036).
- One (1) high pressure / high performance surface grinding machine manufactured by Braun Maschinenfabrik equipped (Source ID: 037) with a 15,000-cfm Inertial Cyclone manufactured by Imperial Systems model HE60-10 and a Cartridge Dust Collection System manufactured by Imperial Systems CMAXX model CM020 with a MERV 15 efficiency rating that have a combined efficiency of 99.9% down to 0.5 microns and are guaranteed to emit less than 0.005 gr/dscf (Source ID: C037).
- One (1) spark ignition, 4-cycle, V8 cylinder, turbocharged stationary emergency engine manufactured by Kohler model KG10V08T-6DGS. The engine can use either natural gas or liquid propane gas as a fuel source. The engine is rated at 207 kW (277.6 HP) when using natural gas or 169 kW (226.6 HP) when using liquid propane (Source ID: 111).
- One (1) 2,000 gpm crossflow cooling tower manufactured by SPX cooling technologies model NC8409UAN that uses CLR 4855 cooling water treatment product manufactured by Comtech Industries, Inc (Source ID: 038).
- One (1) sink on drum cold parts cleaner with 30-gallon capacity manufactured by Safety-Kleen that uses safety clean premium solvent (virgin and recycled) CAS No 64742-47-8 (Source ID: 039).
- Paved haul roads with tractor trailer and employee traffic (Source ID: 701)
[25 PA Code 127.12b]

019 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Upon determination by the permittee that the construction of the air contamination sources, and air cleaning devices is complete, the permittee shall contact the Department's technical reviewer to notify the Department when construction was complete and the planned date for the commencement of operation.

[Pa Code §127.12b]

020 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Upon determination by the permittee that the air contamination sources, and air cleaning devices covered by this plan approval are in compliance with all conditions of the plan approval, the permittee shall contact the Department's technical reviewer and schedule the Initial Operating Permit Inspection.

[25 Pa Code §127.12b]

021 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Upon completion of the Initial Operating Permit Inspection and determination by the Department that the permittee is in compliance with all conditions of the plan approval, the permittee shall submit an administrative amendment to incorporate PA-63-00916C and the existing State Only Operating Permit OP-63-00916 for this facility within 60 days, as applicable. [25 Pa Code §127.12b]

VIII. COMPLIANCE CERTIFICATION.

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

**SECTION C. Site Level Plan Approval Requirements****IX. COMPLIANCE SCHEDULE.**

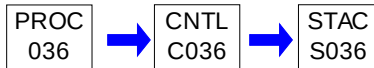
No compliance milestones exist.

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

Source ID: 036

Source Name: DRY ABRASIVE CUTOFF MACHINE

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The emissions rate of particulate matter or PM10 emissions from the exhaust of the cartridge collector shall not exceed 0.005 grains per dry standard cubic foot of effluent gas. [25 Pa Code 127.12b].

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The total metallic HAPs emission rate from the exhaust of the cartridge collector shall not exceed 0.07 lb/hr of effluent gas. [25 Pa Code 127.12b].

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

There shall be no visible air contaminant emissions from the exhaust of the cartridge collector other than water vapor or steam. [25 Pa Code 127.12b].

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

No fugitive air contaminant shall be generated as a result of removing collected dust from the cartridge collector or as a result of subsequent handling the collected dust on-site following its removal from the collector. [25 Pa Code 127.12b].

II. TESTING REQUIREMENTS.

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

In lieu of testing, the permittee shall demonstrate that the dust collection system was installed properly and that operation instructions / maintenance plans are compliant to the manufacturer's instruction. The Department reserves the right to request testing if it feels that any emission restrictions are exceeded. [25 Pa Code 127.12b].

III. MONITORING REQUIREMENTS.

006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Bag leak detection system (BLDS) shall be installed and operated to monitor for leaks or breakthrough. [25 Pa Code 127.12b]

007 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall monitor the differential pressure across the collector on a continuous basis [25 Pa Code 127.12b].

008 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall monitor the cartridge collector exhaust for visible emissions once per day. [25 Pa Code 127.12b].

009 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The bag leak detection systems (BLDS) shall be installed, calibrated, and put into operation to monitor the baghouse and filter performance at all times that the facility operates.



SECTION D. Source Level Plan Approval Requirements

Each BLDS must be installed, operated, calibrated, and maintained in a manner consistent with the manufacturer's written specifications and recommendations, in accordance with the guidance provided in EPA-454/R-98-015, September 1997, and in accordance with good air pollution control practices.

The BLDS must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 or fewer milligrams per actual cubic meter (0.044 gr/cf).

The BLDS sensor must provide output of absolute PM loadings.

The BLDS must be equipped with a device to continuously record the output signal from the sensor.

The BLDS must be equipped with an alarm system that will alert an operator automatically when an increase in relative PM emissions over present level is detected. The alarm must be located such that the alert is detected and recognized easily by an operator.

For positive pressure fabric filter system that do not duct all compartments of cells to a common stack, a BLDS must be installed in each baghouse compartment or cell.

Where multiple bag leak detectors are required, the system's instrumentation and alarm may be shared among detectors.

The permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the bag leak detection systems.

The permittee shall calibrate and check the accuracy of the bag leak detection systems taking into account manufacturer's specifications at a minimum of annually.

An initial performance evaluation of the required bag leak detection systems will be required. The data collected from the bag leak detection systems during the initial performance test (EPA Reference Method 9) shall be used to provide reasonable assurance of ongoing compliance.

Once the bag leak detection systems have been installed, calibrated, and put into operation, the permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the bag leak detection systems.

IV. RECORDKEEPING REQUIREMENTS.

010 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall maintain the following comprehensive and accurate records:

- (1) The pressure differential across the collector once per day.
- (2) The cartridge collector exhaust visible emissions once per day.
- (3) BLDS alarm event(s) that include date, time, duration, and corrective action. [25 Pa Code 127.12b]

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

**SECTION D. Source Level Plan Approval Requirements****VII. ADDITIONAL REQUIREMENTS.****# 011 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

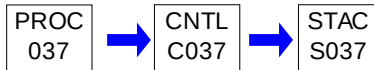
The permittee shall keep on hand a sufficient quantity of spare cartridge collectors in order to immediately replace any cartridges due to deterioration resulting from routine operation. [25 Pa Code 127.12b].

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

Source ID: 037

Source Name: SURFACE GRINDING MACHINE

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The emissions rate of particulate matter or PM10 emissions from the exhaust of the cartridge collector shall not exceed 0.005 grains per dry standard cubic foot of effluent gas. [25 Pa Code 127.12b].

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The total HAPs emission rate from the exhaust of the cartridge collector shall not exceed 0.07 lb/hr of effluent gas. [25 Pa Code 127.12b].

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

There shall be no visible air contaminant emissions from the exhaust of the cartridge collector other than water vapor or steam. [25 Pa Code 127.12b].

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

No fugitive air contaminant shall be generated as a result of removing collected dust from the cartridge collector or as a result of subsequent handling the collected dust on-site following its removal from the collector. [25 Pa Code 127.12b].

II. TESTING REQUIREMENTS.

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

In lieu of testing, the permittee shall demonstrate that the dust collection system was installed properly and that operation instructions / maintenance plans are compliant to the manufacturer's instruction. The Department reserves the right to request testing if it feels that any emission restrictions are exceeded. [25 Pa Code 127.12b].

III. MONITORING REQUIREMENTS.

006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Bag leak detection system (BLDS) shall be installed and operated to monitor for leaks or breakthrough. [25 Pa Code 127.12b]

007 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall monitor the differential pressure across the collector on a continuous basis. [25 Pa Code 127.12b].

008 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall monitor the cartridge collector exhaust for visible emissions once per day. [25 Pa Code 127.12b].

009 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The bag leak detection systems (BLDS) shall be installed, calibrated, and put into operation to monitor the baghouse and filter performance at all times that the facility operates.



SECTION D. Source Level Plan Approval Requirements

Each BLDS must be installed, operated, calibrated, and maintained in a manner consistent with the manufacturer's written specifications and recommendations, in accordance with the guidance provided in EPA-454/R-98-015, September 1997, and in accordance with good air pollution control practices.

The BLDS must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 or fewer milligrams per actual cubic meter (0.044 gr/cf).

The BLDS sensor must provide output of absolute PM loadings.

The BLDS must be equipped with a device to continuously record the output signal from the sensor.

The BLDS must be equipped with an alarm system that will alert an operator automatically when an increase in relative PM emissions over present level is detected. The alarm must be located such that the alert is detected and recognized easily by an operator.

For positive pressure fabric filter system that do not duct all compartments of cells to a common stack, a BLDS must be installed in each baghouse compartment or cell.

Where multiple bag leak detectors are required, the system's instrumentation and alarm may be shared among detectors.

The permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the bag leak detection systems.

The permittee shall calibrate and check the accuracy of the bag leak detection systems taking into account manufacturer's specifications at a minimum of annually.

An initial performance evaluation of the required bag leak detection systems will be required. The data collected from the bag leak detection systems during the initial performance test (EPA Reference Method 9) shall be used to provide reasonable assurance of ongoing compliance.

Once the bag leak detection systems have been installed, calibrated, and put into operation, the permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the bag leak detection systems.

IV. RECORDKEEPING REQUIREMENTS.

010 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall maintain the following comprehensive and accurate records:

- (4) The pressure differential across the collector once per day.
- (5) The cartridge collector exhaust visible emissions once per day.
- (6) BLDS alarm event(s) that include date, time, duration, and corrective action. [25 Pa Code 127.12b]

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

**SECTION D. Source Level Plan Approval Requirements****VII. ADDITIONAL REQUIREMENTS.****# 011 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

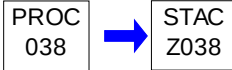
The permittee shall keep on hand a sufficient quantity of spare cartridge collectors in order to immediately replace any cartridges due to deterioration resulting from routine operation. [25 Pa Code 127.12b].

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

Source ID: 038

Source Name: 2,000 GPM COOLING TOWER

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

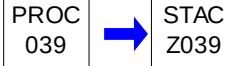
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

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

Source ID: 039

Source Name: 30 GALLON COLD PARTS CLEANER

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §129.63]****Degreasing operations**

The permittee will need to equip the cold cleaning machine with a cover that shall be closed at all times except during cleaning of parts or the addition or removal of solvent. For remote reservoir cold cleaning machines which drain directly into the solvent storage reservoir, a perforated drain with a diameter of not more than 6 inches shall constitute an acceptable cover. [25 Pa Code 129.63(a)(2)(ii)].

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

The permittee will need to retain information specified in §129.63(a)(5), an invoice, bill of sale, certificate that corresponds to a number of sales, MSDS, and other appropriate documentation as directed in §129.63(a) for a period of at least two years. [25 Pa Code 129.63(a)(6)].

V. REPORTING REQUIREMENTS.

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

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

The permittee shall have a permanent conspicuous label summarizing operating requirements in §129.63(a)(3). The label shall also include discretionary good operating practices in §129.63(a)(2)(i)(A) through (C). [25 Pa Code 129.63(a)(2)(i)].

VII. ADDITIONAL REQUIREMENTS.

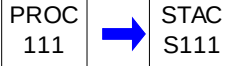
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

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

Source ID: 111

Source Name: 277.6 HP EMERGENCY ENGINE NG OR LPG

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4233]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What emission standards must I meet if I am an owner or operator of a stationary SI internal combustion engine?**

Owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 75 kW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emissions standards in Table 1 to this subpart for their stationary SI ICE.

- NO_x emission rate not to exceed 2.0 g/HP-hr.
- CO emission rate not to exceed 4.0 g/HP-hr.
- VOC emission rate not to exceed 1.0 g/HP-hr [§60.4233(e)].

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?**

The permittee shall comply with requirements for emergency engines in 40 CFR §60.4243(d).

II. TESTING REQUIREMENTS.**# 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?**

If you operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, you must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if you are an owner or operator. You must also meet the requirements as specified in 40 CFR part 1068, subparts A through D, as they apply to you. If you adjust engine settings according to and consistent with the manufacturer's instructions, your stationary SI internal combustion engine will not be considered out of compliance [§60.4243(a)(1)].

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.**# 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?**

The permittee shall comply with requirements for notification, reports, and record keeping as found in 40 CFR §60.4245(e).

V. REPORTING REQUIREMENTS.

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

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

005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4248]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What definitions apply to this subpart?

The permittee must operate the engine as an emergency engine, as defined in 40 CFR §60.4248.

VII. ADDITIONAL REQUIREMENTS.

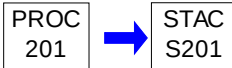
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

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

Source ID: 201

Source Name: 21 MMBTU/HR FURNACE

Source Capacity/Throughput:

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

The emissions from each of the five (5) 21 MMBtu/hr furnaces shall not exceed:

- (1) 0.92 lb/hr of NO_x
- (2) 1.73 lb/hr of CO
- (3) 0.01 lb/hr of SO₂
- (4) 0.11 lb/hr of VOC
- (5) 0.16 lb/hr of PM
- (6) 0.16 lb/hr of PM₁₀
- (7) 0.16 lb/hr of PM_{2.5}
- (8) 0.19 lb/hr of HAPs total [25 Pa Code §127.12b]

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

Visible emissions from each of the stacks associated with the five (5) 21 MMBtu/hr furnaces shall not exceed 10% opacity for a period or periods aggregating more than three (3) minutes in any-one (1) hour and equal to or greater than 30% at any time. [25 Pa Code §127.12b]

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

The natural gas usage for each individual furnace shall not exceed 20,600 scf per hour. [25 Pa Code §127.12b]

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

Within 180 days after initial startup, the permittee shall conduct EPA reference method stack testing on the Furnaces for NO_x and CO while the furnace is operated at 90 percent or greater maximum natural gas flow rate in accordance with the requirements of 25 Pa Code §139. The test needs to be conducted for four hours, emission rates recorded every 15 minutes and the data averaged. The average data cannot exceed emission restrictions. This furnace will act as a representative for all five furnaces. [25 Pa Code §127.12b]

III. MONITORING REQUIREMENTS.**# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall continuously monitor the natural gas flow used for each individual furnace. [25 Pa Code §127.12b]

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

27. The permittee shall, at a minimum, conduct a visible stack emissions check once per day. [25 Pa Code §127.12b]

**SECTION D. Source Level Plan Approval Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall maintain the following comprehensive and accurate records:

- (1) The natural gas flow rate for each furnace, in scf per hour, at a minimum of once per shift.
- (2) The stack visible emissions opacity level once per day.
- (3) High tension electrode connection: check integrity of external plastic and oxidation of internal connector and electrode terminal (annual)
- (4) Electrode ignition / detection: replace if kantal terminals is worn or if ceramics are damaged (annual)
- (5) Combustion head: during furnace shutdown, check that the element does not show any signs of oxidation due to high temperature or material deposits on surface (annual)
- (6) SiC flame tube: during furnace shutdown check that there are no cracks or ruptures in the ceramic material and replace as necessary (annual)
- (7) Replacement of gas side gaskets: replace gas side gasket after each time the gas feeding line is dismantled (annual)
- (8) Burner settings: repeat all the steps in the "startup and setting" section of the manual (annual)
- (9) Premix air settings: repeat all the steps in the "premix air setting" section of the manual (annual) [25 Pa Code 127.12b]

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

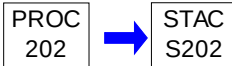
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

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

Source ID: 202

Source Name: 21 MMBTU/HR FURNACE

Source Capacity/Throughput:

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

The emissions from each of the five (5) 21 MMBtu/hr furnaces shall not exceed:

- (1) 0.92 lb/hr of NO_x
- (2) 1.73 lb/hr of CO
- (3) 0.01 lb/hr of SO₂
- (4) 0.11 lb/hr of VOC
- (5) 0.16 lb/hr of PM
- (6) 0.16 lb/hr of PM₁₀
- (7) 0.16 lb/hr of PM_{2.5}
- (8) 0.19 lb/hr of HAPs total [25 Pa Code §127.12b]

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

Visible emissions from each of the stacks associated with the five (5) 21 MMBtu/hr furnaces shall not exceed 10% opacity for a period or periods aggregating more than three (3) minutes in any-one (1) hour and equal to or greater than 30% at any time. [25 Pa Code §127.12b]

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

The natural gas usage for each individual furnace shall not exceed 20,600 scf per hour. [25 Pa Code §127.12b]

II. TESTING REQUIREMENTS.

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

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

The permittee shall continuously monitor the natural gas flow used for each individual furnace. [25 Pa Code 127.12b]

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

The permittee shall, at a minimum, conduct a visible stack emissions check once per day. [25 Pa Code 127.12b]

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

The permittee shall maintain the following comprehensive and accurate records:



SECTION D. Source Level Plan Approval Requirements

- (1) The natural gas flow rate for each furnace, in scf per hour, at a minimum of once per shift.
- (2) The stack visible emissions opacity level once per day.
- (3) High tension electrode connection: check integrity of external plastic and oxidation of internal connector and electrode terminal (annual)
- (4) Electrode ignition / detection: replace if kantal terminals is worn or if ceramics are damaged (annual)
- (5) Combustion head: during furnace shutdown, check that the element does not show any signs of oxidation due to high temperature or material deposits on surface (annual)
- (6) SiC flame tube: during furnace shutdown check that there are no cracks or ruptures in the ceramic material and replace as necessary (annual)
- (7) Replacement of gas side gaskets: replace gas side gasket after each time the gas feeding line is dismantled (annual)
- (8) Burner settings: repeat all the steps in the "startup and setting" section of the manual (annual)
- (9) Premix air settings: repeat all the steps in the "premix air setting" section of the manual (annual) [25 Pa Code 127.12b]

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

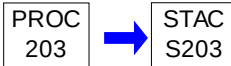
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

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

Source ID: 203

Source Name: 21 MMBTU/HR FURNACE

Source Capacity/Throughput:

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

The emissions from each of the five (5) 21 MMBtu/hr furnaces shall not exceed:

- (1) 0.92 lb/hr of NO_x
- (2) 1.73 lb/hr of CO
- (3) 0.01 lb/hr of SO₂
- (4) 0.11 lb/hr of VOC
- (5) 0.16 lb/hr of PM
- (6) 0.16 lb/hr of PM₁₀
- (7) 0.16 lb/hr of PM_{2.5}
- (8) 0.19 lb/hr of HAPs total [25 Pa Code §127.12b]

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

Visible emissions from each of the stacks associated with the five (5) 21 MMBtu/hr furnaces shall not exceed 10% opacity for a period or periods aggregating more than three (3) minutes in any-one (1) hour and equal to or greater than 30% at any time. [25 Pa Code §127.12b]

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

The natural gas usage for each individual furnace shall not exceed 20,600 scf per hour. [25 Pa Code §127.12b]

II. TESTING REQUIREMENTS.

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

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

The permittee shall continuously monitor the natural gas flow used for each individual furnace. [25 Pa Code 127.12b].

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

The permittee shall, at a minimum, conduct a visible stack emissions check once per day. [25 Pa Code 127.12b].

IV. RECORDKEEPING REQUIREMENTS.

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

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

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

VI. WORK PRACTICE REQUIREMENTS.

006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall maintain the following comprehensive and accurate records:

- (1) The natural gas flow rate for each furnace, in scf per hour, at a minimum of once per shift.
- (2) The stack visible emissions opacity level once per day.
- (3) High tension electrode connection: check integrity of external plastic and oxidation of internal connector and electrode terminal (annual)
- (4) Electrode ignition / detection: replace if kantal terminals is worn or if ceramics are damaged (annual)
- (5) Combustion head: during furnace shutdown, check that the element does not show any signs of oxidation due to high temperature or material deposits on surface (annual)
- (6) SiC flame tube: during furnace shutdown check that there are no cracks or ruptures in the ceramic material and replace as necessary (annual)
- (7) Replacement of gas side gaskets: replace gas side gasket after each time the gas feeding line is dismantled (annual)
- (8) Burner settings: repeat all the steps in the "startup and setting" section of the manual (annual)
- (9) Premix air settings: repeat all the steps in the "premix air setting" section of the manual (annual) [25 Pa Code 127.12b]

VII. ADDITIONAL REQUIREMENTS.

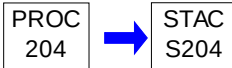
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

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

Source ID: 204

Source Name: 21 MMBTU/HR FURNACE

Source Capacity/Throughput:

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

The emissions from each of the five (5) 21 MMBtu/hr furnaces shall not exceed:

- (1) 0.92 lb/hr of NO_x
- (2) 1.73 lb/hr of CO
- (3) 0.01 lb/hr of SO₂
- (4) 0.11 lb/hr of VOC
- (5) 0.16 lb/hr of PM
- (6) 0.16 lb/hr of PM₁₀
- (7) 0.16 lb/hr of PM_{2.5}
- (8) 0.19 lb/hr of HAPs total [25 Pa Code §127.12b]

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

Visible emissions from each of the stacks associated with the five (5) 21 MMBtu/hr furnaces shall not exceed 10% opacity for a period or periods aggregating more than three (3) minutes in any-one (1) hour and equal to or greater than 30% at any time. [25 Pa Code §127.12b].

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

The natural gas usage for each individual furnace shall not exceed 20,600 scf per hour. [25 Pa Code §127.12b].

II. TESTING REQUIREMENTS.

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

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

The permittee shall continuously monitor the natural gas flow used for each individual furnace. [25 Pa Code 127.12b].

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

The permittee shall, at a minimum, conduct a visible stack emissions check once per day. [25 Pa Code 127.12b].

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

The permittee shall maintain the following comprehensive and accurate records:



SECTION D. Source Level Plan Approval Requirements

- (1) The natural gas flow rate for each furnace, in scf per hour, at a minimum of once per shift.
- (2) The stack visible emissions opacity level once per day.
- (3) High tension electrode connection: check integrity of external plastic and oxidation of internal connector and electrode terminal (annual)
- (4) Electrode ignition / detection: replace if kantal terminals is worn or if ceramics are damaged (annual)
- (5) Combustion head: during furnace shutdown, check that the element does not show any signs of oxidation due to high temperature or material deposits on surface (annual)
- (6) SiC flame tube: during furnace shutdown check that there are no cracks or ruptures in the ceramic material and replace as necessary (annual)
- (7) Replacement of gas side gaskets: replace gas side gasket after each time the gas feeding line is dismantled (annual)
- (8) Burner settings: repeat all the steps in the "startup and setting" section of the manual (annual)
- (9) Premix air settings: repeat all the steps in the "premix air setting" section of the manual (annual) [25 Pa Code 127.12b]

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

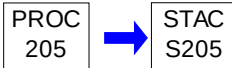
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

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

Source ID: 205

Source Name: 21 MMBTU/HR FURNACE

Source Capacity/Throughput:

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

The emissions from each of the five (5) 21 MMBtu/hr furnaces shall not exceed:

- (1) 0.92 lb/hr of NO_x
- (2) 1.73 lb/hr of CO
- (3) 0.01 lb/hr of SO₂
- (4) 0.11 lb/hr of VOC
- (5) 0.16 lb/hr of PM
- (6) 0.16 lb/hr of PM₁₀
- (7) 0.16 lb/hr of PM_{2.5}
- (8) 0.19 lb/hr of HAPs total [25 Pa Code §127.12b]

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

Visible emissions from each of the stacks associated with the five (5) 21 MMBtu/hr furnaces shall not exceed 10% opacity for a period or periods aggregating more than three (3) minutes in any-one (1) hour and equal to or greater than 30% at any time. [25 Pa Code §127.12b].

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

The natural gas usage for each individual furnace shall not exceed 20,600 scf per hour.[25 Pa Code §127.12b].

II. TESTING REQUIREMENTS.

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

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

The permittee shall continuously monitor the natural gas flow used for each individual furnace. [25 Pa Code 127.12b].

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

The permittee shall, at a minimum, conduct a visible stack emissions check once per day. [25 Pa Code 127.12b].

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

The permittee shall maintain the following comprehensive and accurate records:



SECTION D. Source Level Plan Approval Requirements

- (1) The natural gas flow rate for each furnace, in scf per hour, at a minimum of once per shift.
- (2) The stack visible emissions opacity level once per day.
- (3) High tension electrode connection: check integrity of external plastic and oxidation of internal connector and electrode terminal (annual)
- (4) Electrode ignition / detection: replace if kantal terminals is worn or if ceramics are damaged (annual)
- (5) Combustion head: during furnace shutdown, check that the element does not show any signs of oxidation due to high temperature or material deposits on surface (annual)
- (6) SiC flame tube: during furnace shutdown check that there are no cracks or ruptures in the ceramic material and replace as necessary (annual)
- (7) Replacement of gas side gaskets: replace gas side gasket after each time the gas feeding line is dismantled (annual)
- (8) Burner settings: repeat all the steps in the "startup and setting" section of the manual (annual)
- (9) Premix air settings: repeat all the steps in the "premix air setting" section of the manual (annual) [25 Pa Code 127.12b]

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

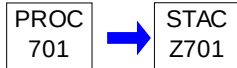
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

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

Source ID: 701

Source Name: TRUCK OPERATIONS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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



SECTION E. Source Group Plan Approval Restrictions.

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.



SECTION H. Miscellaneous.



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