



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

TITLE V/STATE OPERATING PERMIT

Issue Date: November 21, 2023

Effective Date: November 21, 2023

Expiration Date: November 20, 2028

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

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

TITLE V Permit No: 18-00005

Federal Tax Id - Plant Code: 55-0629203-7

Owner Information

Name: EASTERN GAS TRANS & STORAGE INC
Mailing Address: 6603 W BROAD ST
RICHMOND, VA 23230-1723

Plant Information

Plant: EASTERN GAS TRANS & STORAGE INC/FINNEFROCK STA
Location: 18 Clinton County 18919 Leidy Township
SIC Code: 4922 Trans. & Utilities - Natural Gas Transmission

Responsible Official

Name: JOHN MLAMB
Title: VP EASTERN PIPELINE OPS
Phone: (681) 842 - 3550 Email: matt.lamb@bhegts.com

Permit Contact Person

Name: GLEN BOUTILLIER
Title: ENV SPECIALIST III
Phone: (804) 356 - 1364 Email: glenn.boutillier@bhegts.com

[Signature] _____

MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION



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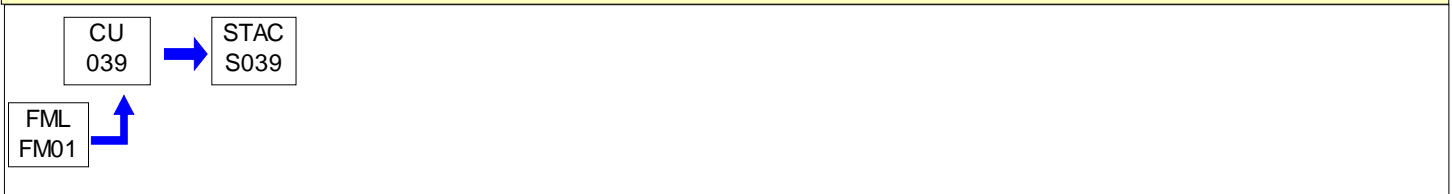
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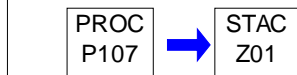
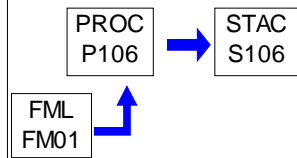
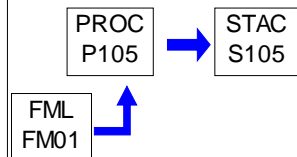
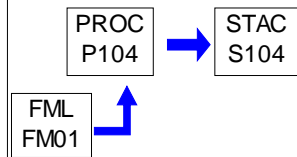
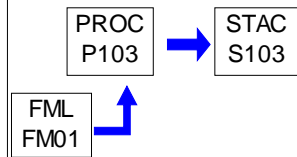
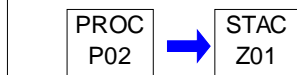
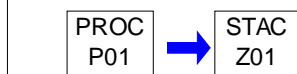
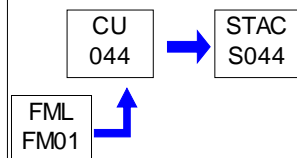
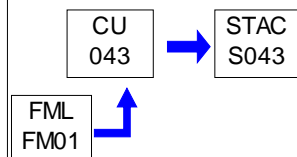
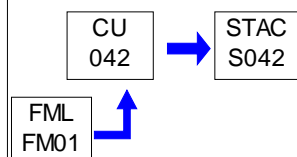
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
039	AJAX BOILER #3	2.750 MMBTU/HR	
042	AJAX BOILERS #4 AND #5	4.200 MMBTU/HR	
043	PK-THERMIFIC BOILER #7	1.500 MMBTU/HR	
044	AJAX BOILER #6	4.200 MMBTU/HR	
P01	FACILITY FUGITIVE VOC EMISSIONS	N/A	
P02	FACILITY BLOWDOWN EMISSIONS		
P103	ENGINE 3 (INGERSOLL RAND)	N/A	Natural Gas
P104	ENGINE 4 (COOPER)	N/A	Natural Gas
P105	ENGINE 5 (COOPER)	N/A	Natural Gas
P106	ENGINE 6 (DRESSER RAND)	N/A	Natural Gas
P107	WASTEWATER TANK (FLOOR DRAIN)		
P108	STORAGE TANKS		
P110	SOLAR MARS, 15,900 BHP TURBINE ENGINE		
P111	SOLAR TAURUS 70M 11,015 BHP TURBINE ENGINE		
P201	AUX POWER UNIT 1	N/A	Natural Gas
P203	791 BHP EMERGENCY GENERATOR		
C110	OXIDATION CATALYST		
C111	OXIDATION CATALYST		
C203	THREE WAY OXIDATION CATALYST		
FM01	NATURAL GAS PIPELINE		
S039	AJAX BOILER #3 STACK		
S042	AJAX BOILERS #4 AND #5 STACK		
S043	AJAX BOILER #6 STACK		
S044	AJAX BOILER #2 STACK		
S103	ENGINE 3 STACK		
S104	ENGINE 4 STACK		
S105	ENGINE 5 STACK		
S106	ENGINE 6 STACK		
S110	TURBINE ENGINE STACK		
S111	11,015 BHP TURBINE ENGINE STACK		
S201	AUX POWER UNIT 1 STACK		
S203	791 BHP EMERGENCY GENERATOR STACK		
Z01	FUGITIVE VOC EMISSIONS		

PERMIT MAPS

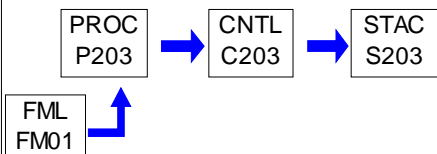
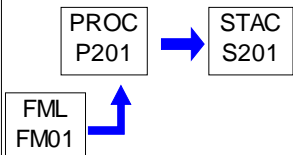
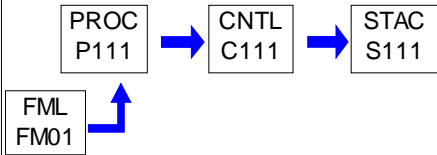
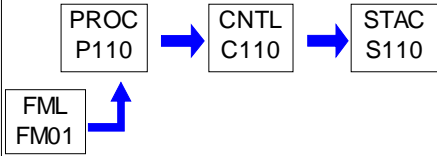
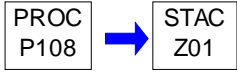


PERMIT MAPS





PERMIT MAPS



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

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

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

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

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

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

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

This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit. The terms and conditions of the expired permit shall automatically continue pending issuance of a new Title V permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

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

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

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

(c) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413. The application for renewal of the Title V permit shall also include submission of compliance review forms which have been used by the permittee to update information submitted in accordance with either 25 Pa. Code § 127.412(b) or § 127.412(j).

(d) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information during the permit renewal process. The permittee shall also promptly provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

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

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

- (1) The Department determines that no other change in the permit is necessary;
- (2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,
- (3) A compliance review form has been submitted to the Department and the permit transfer has been approved by

**SECTION B. General Title V Requirements**

the Department.

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

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

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

- (1) Enter at reasonable times upon the permittee's premises where a Title V source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;
- (2) Have access to and copy or remove, at reasonable times, records that are kept under the conditions of this permit;
- (3) Inspect at reasonable times, facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;
- (4) Sample or monitor, at reasonable times, substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

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

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

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

(a) The permittee shall comply with the conditions of this permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one (1) or more of the following:

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

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

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this Title V permit.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.

(2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.

**SECTION B. General Title V Requirements**

(3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility, liquefied petroleum gas or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code § 123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.

(4) Space heaters which heat by direct heat transfer.

(5) Laboratory equipment used exclusively for chemical or physical analysis.

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

(d) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:

(1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (b)(4) and (5) of this permit condition.

(2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.

(3) Violate any applicable requirement of the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

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

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

(f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.

(g) Except for de minimis emission increases allowed under this permit, 25 Pa. Code § 127.449, or sources and physical changes meeting the requirements of 25 Pa. Code § 127.14, the permittee is prohibited from making physical changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.

(h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

(5) The results of the analyses.

(6) The operating conditions as existing at the time of sampling or measurement.

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

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

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

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

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

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

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

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

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

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

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

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

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

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)
- (6) Section 127.462 (relating to minor operating permit amendments)
- (7) Subchapter H (relating to general plan approvals and operating permits)

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(8) 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 (1) through (8) in Condition #001 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 limitations of 25 Pa. Code Section 123.41 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 person in observing the opacity of visible emissions,
- (3) When the emission results from sources specified in 25 Pa. Code Section 123.1(a)(1) through (9) (relating to prohibition of certain fugitive emissions).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1, 127.12 and 129.91 and 40 CFR Section 52.21]

The sources at this facility shall only be fired on pipeline quality natural gas.

**SECTION C. Site Level Requirements****II. TESTING REQUIREMENTS.****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) At least ninety (90) days prior to the performance of any stack testing required by this permit, a protocol shall be submitted to the Department for evaluation. The protocol shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.
- (b) The Department shall be given at least fourteen (14) days advance notice of the scheduled dates for the performance of the stack testing required by this permit.
- (c) Within sixty (60) days of the completion of the stack tests required by this permit, two copies of the test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in performance of the tests, all process and operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.
- (d) Submissions of protocols and reports shall be sent to the Department's Source Testing Section via email to ra-epstacktesting@pa.gov and ra-epncstacktesting@pa.gov or by disk when the file is over 35 MBs.

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

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

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

- (a) As specified in 25 Pa. Code Section 139.11(1), performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.
- (b) As specified in 25 Pa. Code Section 139.11(2), the Department will consider test results for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, as a minimum, all of the following:
- (1) a thorough source description, including a description of any air cleaning devices and the flue,
 - (2) process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature, and other conditions which may affect emissions from the process,
 - (3) the location of sampling ports,
 - (4) effluent characteristics, including velocity, temperature, moisture content, gas density (percentage of CO, CO₂, O₂ and N₂), static and barometric pressures,
 - (5) sample collection techniques employed, including procedures used, equipment descriptions, and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met,
 - (6) laboratory procedures and results,
 - (7) calculated results.

III. MONITORING REQUIREMENTS.**# 009 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

**SECTION C. Site Level Requirements**

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

IV. RECORDKEEPING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall keep a comprehensive and accurate logbook, or uneditable electronic record, of the facility inspections performed. The logbook, or uneditable electronic record, shall include records of instances of visible emissions, visible fugitive emissions and malodorous air emissions, the name of the company representative monitoring these instances, the date and time of each occurrence, and the wind direction during each instance.

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

011 [25 Pa. Code §135.5]**Recordkeeping**

(a) The permittee shall maintain such records, including computerized records, as may be necessary to comply with 25 Pa. Code Sections 135.3 and 135.21. These may include records of production, fuel usage, equipment maintenance or other information determined by the Department to be necessary for identification and quantification of air contaminant emissions.

(b) Any records maintained pursuant to this condition shall be retained for at least five (5) years and shall be made available to the Department upon request.

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

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

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

(c) The report shall describe the following:

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

**SECTION C. Site Level 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.

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

The permittee shall submit all requested reports in accordance with the Department's suggested format.

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

[The reporting requirements specified in this permit condition supercede the reporting requirements specified in Condition #026 of Section B, General Title V Requirements.]

(a) The permittee shall submit the annual compliance certifications to the Department and EPA Region III no later than September 1 (for July 1 of the previous year through June 30 of the current year).

(b) The permittee shall submit the semiannual reports of required monitoring to the Department no later than September 1 (for July 1 of the previous year through June 30 of the current year) and March 1 (for January 1 through Decemebr 31 of the previous year).

015 [25 Pa. Code §135.21]**Emission statements**

(a) The permittee shall provide the Department with a statement of each stationary source in a form as prescribed by the Department, showing the actual emissions of nitrogen oxides and volatile organic compounds from the permitted facility for each reporting period, a description of the method used to calculate the emissions and the time period over which the calculation is based.

(b) The annual emission statements are due by March 1 (for the immediately-preceding January 1 through December 31 twelve consecutive month period) and shall contain a certification by a company officer or the plant manager that the information contained in the statement is accurate. The Emission Statement shall provide data consistent with requirements and guidance developed by the EPA.

016 [25 Pa. Code §135.3]**Reporting**

(a) A person who owns or operates a source to which 25 Pa. Code 135 applies, and who has previously been advised by the Department to submit an annual Air Information Management Systems (AIMS) report, shall submit by March 1 of each year an annual AIMS report for the preceding calendar year. The report shall include information for all previously reported sources, new sources which were first operated during the proceeding calendar year and sources modified during the same period which were not previously reported.

(b) A person who receives initial notification by the Department that an annual AIMS report is necessary shall submit an initial annual AIMS report within 60 days after receiving the notification or by March 1 of the year following the year for which the report is required, whichever is later.

(c) A source owner or operator may request an extension of time from the Department for the filing of an annual AIMS report, and the Department may grant the extension for reasonable cause.

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

The permittee shall take all reasonable actions for any source specified in (1) through (8) in Condition #001 herein to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

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

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

This operating permit also serves as a Prevention of Significant Deterioration (PSD) permit issued subsequent to the provisions of 40 CFR 52.21.

021 [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 Title V General Requirements).

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

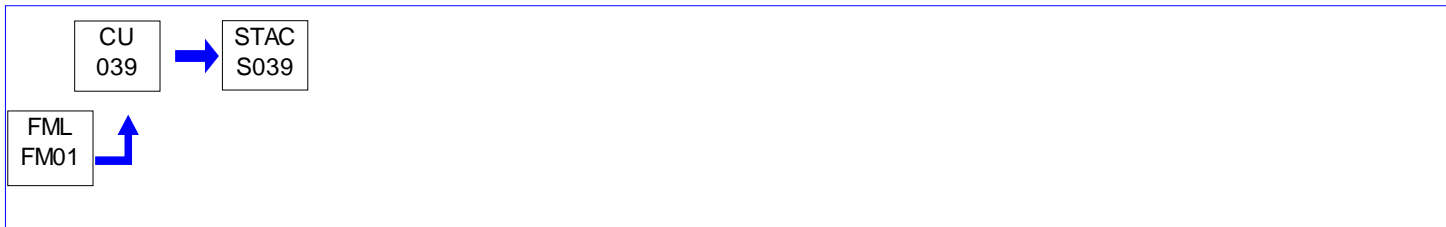
***** Permit Shield In Effect *****

**SECTION D. Source Level Requirements**

Source ID: 039

Source Name: AJAX BOILER #3

Source Capacity/Throughput: 2.750 MMBTU/HR

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

No person may permit the emission into the outdoor atmosphere of particulate matter from Source 039 in excess of the rate of 0.4 pounds per million Btu of heat input.

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

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provisions in 40 CFR Section 52.2020(c)]

No person may permit the emission into the outdoor atmosphere of sulfur oxides (SO_x, expressed as SO₂) from Source 039 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

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

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

(a) The nitrogen oxides (NO_x, expressed as NO₂) emissions from Source 039 shall not exceed 0.492 pounds per hour.

(b) The carbon monoxide emissions from Source 039 shall not exceed 0.04 pounds per hour.

(c) The volatile organic compound emissions from Source 039 shall not exceed 0.016 pounds per hour.

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

Source 039 shall only be fired on pipeline quality natural gas.

II. TESTING REQUIREMENTS.

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

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

The permittee shall, upon Department request, provide analyses and/or samples of the fuel being used in Source 039.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.**

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

V. REPORTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall, upon Department request, provide calculations verifying compliance with the volatile organic compound emission limitations established in condition #003 herein.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.13]

Subpart A--General Provisions**Addresses of State air pollution control agencies and EPA Regional Offices.**

The submission of all requests, reports, applications, submittals and other communications required by the National Emissions Standards for Hazardous Air Pollutants (40 CFR Part 63) shall be submitted to both the U. S. Environmental Protection Agency and the Department. The Environmental Protection Agency copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

and

The Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701-6448

VI. WORK PRACTICE REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.97(d) and 129.112(c)]

Source 039 shall be operated and maintained in accordance with the manufacturer's specifications and good air pollution control practices.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7540]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.**How do I demonstrate continuous compliance with the emission limitations, fuel specifications and work practice standards?**

The permittee shall conduct a tune-up of Source ID 039 every 5 years as specified in 40 CFR Part 63 Subpart DDDDD Section 63.7540(a)(10).

VII. ADDITIONAL REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source 039 is a 2.75 million Btu per hour Ajax model WGFD-2750 natural gas-fired boiler.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7485]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.**Am I subject to this subpart?**

Source 039 is subject to the requirements of the National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters pursuant to 40 CFR Part 63 Subpart DDDDD Section 63.7480

**SECTION D. Source Level Requirements**

through 63.7560. The permittee shall comply with all applicable requirements of 40 CFR Part 63 Subpart DDDDD Section 63.7480 through 63.7560.

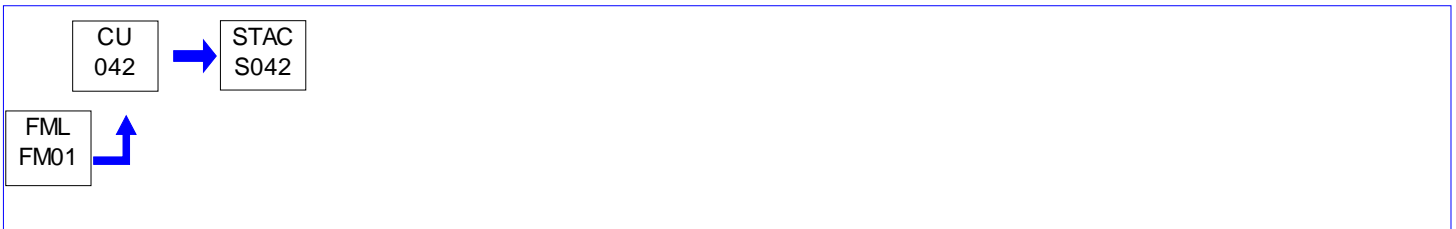
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 042

Source Name: AJAX BOILERS #4 AND #5

Source Capacity/Throughput: 4.200 MMBTU/HR

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

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

Each combustion unit incorporated in Source ID 042 shall not emit air contaminants in excess of the following limitations:

- (a) Nitrogen Oxides (NO_x, expressed as NO₂) - 25 parts per million @ 3% oxygen
- (b) Carbon Monoxide (CO) - 50 parts per million @ 3% oxygen
- (c) Volatile Organic Compounds (VOCs), expressed as non-methane hydrocarbons - 13 parts per million @ 3% oxygen

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

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

[Compliance with this streamlined condition will assure compliance with the requirements of 25 Pa. Code Section 123.22]

The sulfur oxide (SO_x, expressed as SO₂) emissions from each combustion unit incorporated in Source ID 042 shall not exceed 0.005 pounds per million Btu of heat input.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

[Compliance with this streamlined condition will assure compliance with the requirements of 25 Pa. Code Section 123.11]

The particulate matter emissions from each combustion unit incorporated in Source ID 042 shall not exceed 0.001 pounds per million Btu of heat input.

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 pipeline-quality, natural gas as fuel for each combustion unit incorporated in Source ID 042.

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.**

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

III. MONITORING REQUIREMENTS.

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

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

(a) The permittee shall keep records of the carbon monoxide, nitrogen oxide and volatile organic compound emissions from each combustion unit incorporated in Source ID 042 to verify compliance with the respective emission limitation.

(b) All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available the Department upon request.

V. REPORTING REQUIREMENTS.**# 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.13]****Subpart A--General Provisions****Addresses of State air pollution control agencies and EPA Regional Offices.**

The submission of all requests, reports, applications, submittals and other communications required by the National Emissions Standards for Hazardous Air Pollutants (40 CFR Part 63) shall be submitted to both the U. S. Environmental Protection Agency and the Department. The Environmental Protection Agency copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

and

The Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701-6448

VI. WORK PRACTICE REQUIREMENTS.

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

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

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

Source ID 042 consists of the following boilers:

(a) One (1) 2.5 million Btu per hour, Ajax model 2500, natural gas-fired boiler (Boiler #5)

(b) One (1) 4.2 million Btu per hour, Ajax model 4200, natural gas-fired boiler (Boiler #4)

(c) Air contaminant emissions from each combustion unit incorporated in Source ID 042 shall be controlled with low NOx

**SECTION D. Source Level Requirements**

burners and flue gas recirculation.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The boilers incorporated in Source ID 042 are subject to the requirements of 40 CFR Part 63 Subpart DDDDD. The permittee shall comply with all applicable requirements of 40 CFR Part 63 Subpart DDDDD Sections 63.6580 through 63.6675.

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

**SECTION D. Source Level Requirements**

Source ID: 043

Source Name: PK-THERMIFIC BOILER #7

Source Capacity/Throughput: 1.500 MMBTU/HR

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

001 [25 Pa. Code §123.11]

Combustion units

Source 043 shall not emit particulate matter in excess of the rate of 0.40 pounds per million Btu of heat input.

002 [25 Pa. Code §123.22]

Combustion unitsThe permittee shall not permit the emission of sulfur oxides, expressed as sulfur dioxide (SO₂), into the outdoor atmosphere from Source 043 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source 043 shall only be fired on pipeline quality natural gas.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.13]

Subpart A--General Provisions**Addresses of State air pollution control agencies and EPA Regional Offices.**

The submission of all requests, reports, applications, submittals and other communications required by the National Emissions Standards for Hazardous Air Pollutants (40 CFR Part 63) shall be submitted to both the U. S. Environmental Protection Agency and the Department. The Environmental Protection Agency copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

and

**SECTION D. Source Level Requirements**

The Pennsylvania Department of Environmental Protection
 Air Quality Program Manager
 208 W. Third Street, Suite 101
 Williamsport, PA 17701-6448

VI. WORK PRACTICE REQUIREMENTS.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7540]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

How do I demonstrate continuous compliance with the emission limitations, fuel specifications and work practice standards?

The permittee shall conduct a tune-up of Source 043 every 5 years as specified in 40 CFR Part 63 Subpart DDDDD Section 63.7540(a)(10).

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 043 is a 1.5 million Btu per hour, PK Thermific natural gas fired boiler.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7485]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

Am I subject to this subpart?

Source 043 is subject to the requirements of the National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters pursuant to 40 CFR Part 63 Subpart DDDDD Section 63.7480 through 63.7560. The permittee shall comply with all applicable requirements of 40 CFR Part 63 Subpart DDDDD Section 63.7480 through 63.7560.

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

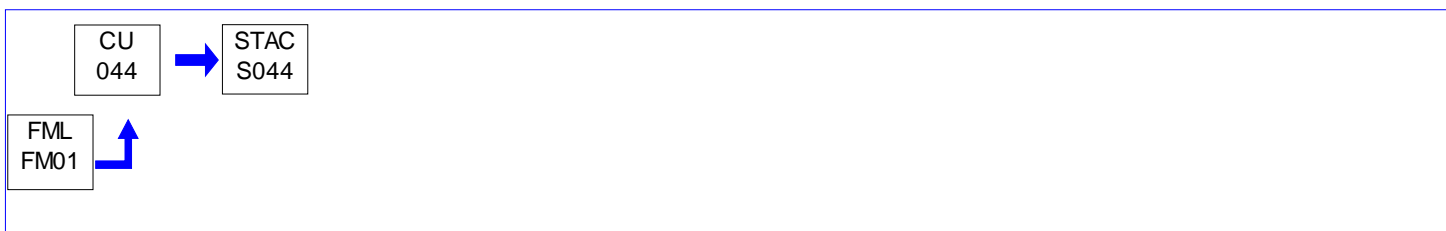
**SECTION D. Source Level Requirements**

Source ID: 044

Source Name: AJAX BOILER #6

Source Capacity/Throughput:

4.200 MMBTU/HR

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

001 [25 Pa. Code §123.11]

Combustion units

Source ID 044 shall not emit particulate matter in excess of the rate of 0.40 pounds per million Btu of heat input.

002 [25 Pa. Code §123.22]

Combustion unitsThe permittee shall not permit the emission of sulfur oxides, expressed as sulfur dioxide (SO₂), into the outdoor atmosphere from Source ID 044 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.**Fuel Restriction(s).**

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use pipeline-quality natural gas as fuel for Source ID 044.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.13]

Subpart A--General Provisions**Addresses of State air pollution control agencies and EPA Regional Offices.**

The submission of all requests, reports, applications, submittals and other communications required by the National Emissions Standards for Hazardous Air Pollutants (40 CFR Part 63) shall be submitted to both the U. S. Environmental Protection Agency and the Department. The Environmental Protection Agency copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

**SECTION D. Source Level Requirements**

and

The Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701-6448

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.97(d) and 129.112(c)]

Source 044 shall be operated and maintained in accordance with the manufacturer's specifications and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 044 is a 4.2 million Btu per hour, Ajax model 4200, natural gas-fired boiler. (Boiler #2)

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7485]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.**Am I subject to this subpart?**

Source ID 044 is subject to the requirements of 40 CFR Part 63 Subpart DDDDD Sections 63.7480 through 63.7575. The permittee shall comply with all applicable requirements of 40 CFR Part 63 Subpart DDDDD Sections 63.7480 through 63.7575.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7540]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.**How do I demonstrate continuous compliance with the emission limitations, fuel specifications and work practice standards?**

The permittee shall conduct a tune-up of Source ID 044 every five (5) years as specified in 40 CFR Section 63.7575.

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

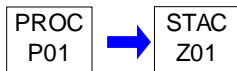
**SECTION D. Source Level Requirements**

Source ID: P01

Source Name: FACILITY FUGITIVE VOC EMISSIONS

Source Capacity/Throughput:

N/A

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

[Additional authority for this permit condition is derived from the permittee requesting this elective limitation]

{Compliance with this condition will assure compliance with the Reasonably Available Control Technology limitation of 15.41 tons pursuant to 25 Pa. Code Sections 129.91 through 129.100 and 129.111 through 129.115}

The total combined fugitive volatile organic compound emissions from this facility (Source P01) shall not exceed 9.66 tons in any 12 consecutive month period of which the emission of volatile hazardous air pollutants shall not exceed 1.0 tons 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 (Title V General Requirements).

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

[Additional authority for this permit condition is derived from 40 CFR Section 60.5397a(c-g)]

{Compliance with the requirements in this condition will assure compliance with the requirements of 25 Pa. Code Section 123.1}

(a) The permittee shall perform a monthly Audio, Visual, Olfactory (AVO) inspection of the facility to determine any leaks that may occur during the inspection and rectify the leak as soon as possible.

(b) The permittee shall perform a quarterly Leak Detection and Repair (LDAR) program which meets the following:

(1) The use of optical gas imaging (OGI) or gas leak detector capable of reading methane concentrations in air of 0 to 5% with an accuracy of \pm 0.2%,

(2) The program is to be conducted on valves, flanges, connectors, storage vessels/storage tanks and compressor seals in natural gas service. Any equipment or component that is designed to protect the equipment or safety of personnel is not considered a leak,

(3) Leaks shall be repaired no later than 30 calendar days after leaks are detected unless facility shutdowns or ordering of replacement parts are necessary for repair of the leaks,

(4) The permittee may request an extension of the deadline for repairs,

(5) A leak shall be defined as a concentration of more than 2.5% methane or a volatile organic compound (VOC) concentration greater than 500 parts per million (ppm) using a gas leak detector or a leak is defined when using an OGI

**SECTION D. Source Level Requirements**

camera as a visible leak image, as demonstrated by monitoring,

(6) A leak shall be considered repaired if monitoring demonstrated 2.5% or less, or if established by 40 CFR Part 60, Appendix A, or no visible leak image is detected by the OGI camera.

(7) Quarterly thereafter perform the LDAR related inspections that include either the use of an OGI camera or a gas leak detector capable of reading methane concentrations in air of 0 to 5% with an accuracy of +/-0.2%.

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

[Additional authority for this permit condition is derived from 40 CFR Section 60.5397a(h)]

{Compliance with the requirements in this condition will assure compliance with the requirements of 25 Pa. Code Section 123.1}

(a) The permittee shall keep records of the following information:

(1) The date and time of the monthly Audio, Visual, Olfactory (AVO) inspections and any repairs that were conducted and any repairs that were conducted pursuant to the AVO inspections.

(2) The date and time of the quarterly Leak Detection and Repair (LDAR) inspections and any repairs that were conducted and any repairs that were conducted pursuant to the LDAR inspections.

(b) The permittee shall keep these records for a minimum of five (5) years and shall be made available to the Department upon request.

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

(a) The permittee shall, at the conclusion of each calendar month, calculate and record the amount of fugitive volatile organic compound and fugitive volatile hazardous air pollutant emissions which occurred at this facility during the 12 consecutive month period which ended on the last day of the respective month.

(b) The permittee shall keep a logbook of the following:

- (1) the date of each inspection,
- (2) initials of the person(s) conducting each inspection,
- (3) the date each leak is detected,
- (4) the specific location of the leak,
- (5) the repair performed to eliminate the leak,
- (6) the date the leak is repaired,
- (7) the action/inspection taken to determine that the leak is repaired, and
- (8) the initials of the person(s) repairing the leak.

(c) All records generated pursuant to this condition shall be retained for at least five (5) years and shall, along with any supporting data and calculations, be made available to the Department upon request.

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

By no later than March 1 of each year, the permittee shall submit to the Department all of the 12 consecutive month fugitive volatile organic compound emission values calculated for this facility during the prior calendar year (all emission values calculated during 2018 shall be submitted by March 1, 2019, etc.).

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

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

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source P01 consists of any component that has the potential to emit fugitive emissions of methane, volatile organic compounds or hazardous air pollutants, but not limited to valves, connectors, pressure relief device, open-ended lines, flanges, compressors, instruments, meters, covers and closed vent systems. Devices that vent as part of normal operations are not considered fugitive sources unless the emission originates from a place other than a vent.

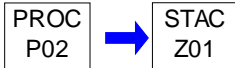
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P02

Source Name: FACILITY BLOWDOWN EMISSIONS

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total combined fugitive emissions from Source P02 shall not equal or exceed 2.70 tons of volatile organic compounds in any 12 consecutive month period of which the emission of volatile hazardous air pollutants shall not equal or exceed 1.0 tons 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 (Title V General Requirements).

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the amount of fugitive volatile organic compounds and the amount of fugitive hazardous air pollutants emitted from each planned blowdown during each 12 consecutive month period.

(a) All records generated pursuant to his condition 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 (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.112(c)]

The permittee shall perform good operational practices for each planned or unplanned blowdown to minimize the amount of fugitive emissions.

VII. ADDITIONAL REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source P02 is the planned blowdowns of the facility



SECTION D. Source Level Requirements

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

**SECTION D. Source Level Requirements**

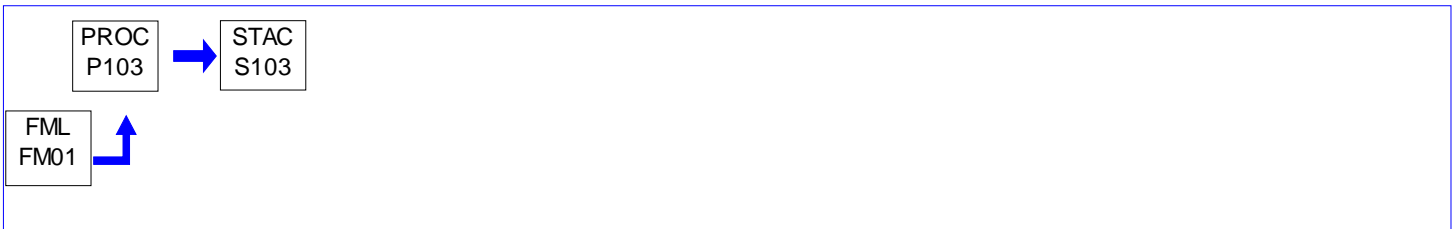
Source ID: P103

Source Name: ENGINE 3 (INGERSOLL RAND)

Source Capacity/Throughput:

N/A

Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

The concentration of particulate matter in the exhaust of Source P103 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides (SO_x, expressed as SO₂) from Source P103 in such a manner that the concentration of sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The carbon monoxide emissions from Source P103 shall not exceed 8.38 pounds per hour.

(b) The permittee is required to comply with the above emission limitations at all times except during periods of engine startup and shutdown, provided that the duration of startup and shutdown does not exceed one hour per occurrence.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.97(g)(3) and 129.112(g)(3)(i)(A & B)]

(a) The nitrogen oxides (NO_x, expressed as NO₂) emissions from Source P103 shall not exceed 3.0 grams per brake horsepower-hour.

(b) The volatile organic compound emissions from Source P103 shall not exceed 0.5 gram per brake horsepower-hour.

II. TESTING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall perform semi-annual nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide tests upon Source P103, using a portable exhaust gas analyzer approved by the Department, during the periods of January 1 through June 30 and July 1 through December 31. The portable gas analyzer testing shall not be less than 5 months or greater than 7 months from the previous portable gas analyzer test.

(b) The reference method source testing required by condition #006 herein may be substituted for this portable analyzer testing on a one-for-one basis (one occurrence of reference method testing may be substituted for one of the every 6-month occurrences of portable analyzer testing).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) At least 90 days prior to the performance of the testing required by condition #007 herein, the permittee shall submit a

**SECTION D. Source Level Requirements**

pretest protocol to the Department for review. This protocol shall describe the test methods and procedures that will be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all engine process data which will be monitored and recorded during testing.

(b) Submissions of protocols and reports shall be sent to the Department's Source Testing Section via email to rapstacktesting@pa.gov and ra-epncstacktesting@pa.gov or by disk when the file is over 35 MBs.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.115]

(a) On or before Decemebr 31, 2023, the permittee shall perform stack testing on Source P103 to determine the nitrogen oxide and volatile organic compound emission rates, in grams per brake horsepower-hour, from the respective engine to verify compliance with the presumptive nitrogen oxide and volatile organic compound emission limitations as specified in 25 Pa. Code Section 129.112(g)(3)(i)(A&B).

(b) All testing shall be performed while Source P103 is operating at full load and full speed using test methods and procedures approved by the Department.

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

At least 14 days prior to the performance of the testing required by conditions #005 and #007 herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of testing without having been given proper notification.

III. MONITORING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.100]

(a) The permittee shall keep records of the New Source Review (NSR) and Prevention of Significant Deterioration (PSD) applicability analyses pursuant to 40 CFR Section 52.21(a) and 25 Pa. Code Section 127.203a to demonstrate that the proposed installation of the Screw-in Pre-Chambers will not trigger PSD and NSR requirements, pursuant to 40 CFR Section 52.21 and 25 Pa. Code Chapter 127, Subchapter E related to NSR.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.100]

(a) The permittee shall maintain accurate and comprehensive records of the following for Source P103:

(i) the number of hours that Source P103 operated during each month,

(ii) the amount of fuel used in Source P103 during each month,

(iii) the calculations and/or data used to verify compliance with the sulfur oxides, nitrogen oxides, carbon monoxide, volatile organic compound and particulate matter emission limitations for Source P103,

**SECTION D. Source Level Requirements**

(iv) the results of all testing required by conditions #005 and #007 herein.

(b) All records generated pursuant to this condition shall be retained for at least five (5) years and shall be made available to the Department upon request.

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

(a) Within 60 days following the completion of any testing required by conditions #005 and #007 herein, the permittee shall submit a test report to the Department. This test report shall contain the results of the testing (expressed in pounds per hour), a description of the test methods and procedures actually used for the performance of the testing, copies of all raw test data, copies of all engine process data collected during testing, including, but not necessarily limited to, the engine load and speed during each individual test run, and a copy of all calculations generated during data analysis.

(b) Submissions of protocols and reports shall be sent to the Department's Source Testing Section via email to ra-epstacktesting@pa.gov and ra-epncstacktesting@pa.gov or by disk when the file is over 35 MBs.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.100]

The permittee shall submit the results of the semi-annual exhaust gas analyzer testing required by condition #005 herein to the Department within 30 days following the completion of said testing.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.100]

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

(i) the number of hours that Source P103 operated during each month of the respective reporting period,

(ii) the amount of fuel used in Source P103 during each month of the respective reporting period,

(iii) the calculations and/or data used to verify compliance with the nitrogen oxides and volatile organic compound emission limitations for Source P103 during the respective reporting period.

(b) Each semi-annual report shall be submitted to the Department by no later than September 1 (for the immediately-preceding January 1 through June 30 period) and March 1 (for the immediately-preceding July 1 through December 31 period).

VI. WORK PRACTICE REQUIREMENTS.**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.97(c)]

The permittee shall maintain and operate Source P103 in accordance with the manufacturer's specifications and with good operating practices.

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

(a) Source P103 is a 1,100 horsepower Ingersoll Rand model KVG-PL four stroke, lean burn, natural gas-fired reciprocating internal combustion engine (Engine #3).

**SECTION D. Source Level Requirements**

(b) The nitrogen oxides emissions from Source P103 shall be controlled by an electronic fuel-injection system.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Department will require the permittee to install a control device to control the nitrogen oxide or volatile organic compound emissions from Source P103 if the results from the testing determine that the emissions increased from the baseline emission rate of Source P103. Within 60 days after the results of the testing have been approved, by the Department, the permittee will be required to submit a plan approval application for a control device to control the nitrogen oxide and or/ volatile organic compound emissions, if warranted.

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

**SECTION D. Source Level Requirements**

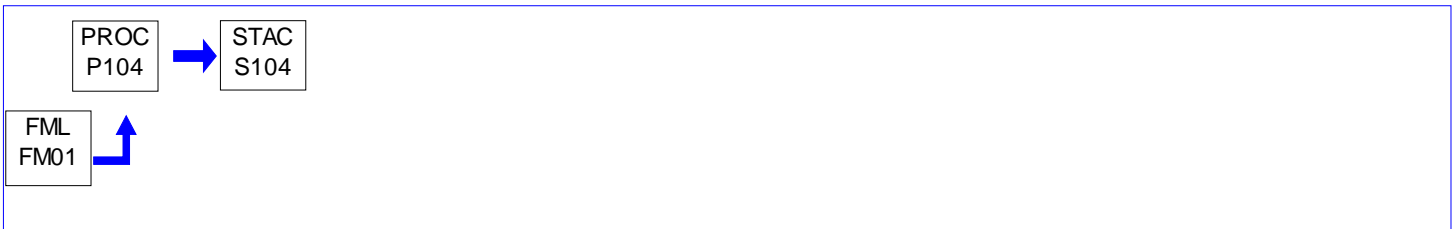
Source ID: P104

Source Name: ENGINE 4 (COOPER)

Source Capacity/Throughput:

N/A

Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

The concentration of particulate matter in the exhaust of Source P104 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides (SO_x, expressed as SO₂) from Source P104 in such a manner that the concentration of sulfur oxides 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 carbon monoxide emissions from Source P104 shall not exceed 8.82 pounds per hour and 36.63 tons in any 12 consecutive month period.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(g)(3)]

(a) The nitrogen oxides (NO_x, expressed as NO₂) emissions from Source P104 shall not exceed 3.0 grams per brake horsepower-hour.

(b) The volatile organic compound emissions from Source P104 shall not exceed 1.0 grams per brake horsepower-hour.

Operation Hours Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.114]

The permittee shall not operate Source P104 more than 4,000 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) At least 90 days prior to the performance of the testing required by condition #007 herein, the permittee shall submit a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures that will be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all engine process data which will be monitored and recorded during testing.

**SECTION D. Source Level Requirements**

(b) Submissions of protocols and reports shall be sent to the Department's Source Testing Section via email to ra-epstacktesting@pa.gov and ra-epncstacktesting@pa.gov or by disk when the file is over 35 MBs.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.100]

(a) On or before December 31, 2025, the permittee shall perform stack testing on Source P104 to determine the nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide, volatile organic compound and non-methane hydrocarbon emission rates from the respective engine.

(b) All testing shall be performed while Source P104 is operating at full load and full speed using test methods and procedures approved by the Department.

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

(a) The permittee shall perform semi-annual nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide tests upon Source P104, using a portable exhaust gas analyzer approved by the Department, during the periods of January 1 through June 30 and July 1 through December 31. The portable gas analyzer testing shall not be less than 5 months or greater than 7 months from the previous portable gas analyzer test.

(b) The reference method source testing required by condition #007 herein may be substituted for this portable analyzer testing on a one-for-one basis (one occurrence of reference method testing may be substituted for one of the every 6-month occurrences of portable analyzer testing).

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

At least 14 days prior to the performance of the testing required by conditions #007 and #008 herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of testing without having been given proper notification.

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.100]

(a) The permittee shall maintain accurate and comprehensive records of the following for Source P104:

(i) the number of hours that Source P104 operated during each month,

(ii) the amount of fuel used in Source P104 during each month,

(iii) the calculations and/or data used to verify compliance with the sulfur oxides, nitrogen oxides, carbon monoxide, volatile organic compound, non-methane hydrocarbon and particulate matter emission limitations for Source P104,

(iv) the results of all testing required by conditions #006 and #007 herein.

(b) All records generated pursuant to this condition shall be retained for at least five (5) years and shall be made available to

**SECTION D. Source Level Requirements**

the Department upon request.

V. REPORTING 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 129.100]

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

- (i) the number of hours that Source P104 operated during each month of the respective reporting period,
- (ii) the amount of fuel used in Source P104 during each month of the respective reporting period,
- (iii) the calculations and/or data used to verify compliance with the nitrogen oxides, carbon monoxide, volatile organic compound and non-methane hydrocarbon emission limitations for Source P104 during the respective reporting period.

(b) Each semi-annual report shall be submitted to the Department by no later than September 1 (for the immediately-preceding January 1 through June 30 period) and March 1 (for the immediately-preceding July 1 through December 31 period).

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

(a) Within 60 days following the completion of any testing required by condition #006 herein, the permittee shall submit a test report to the Department. This test report shall contain the results of the testing (expressed in pounds per hour), a description of the test methods and procedures actually used for the performance of the testing, copies of all raw test data, copies of all engine process data collected during testing, including, but not necessarily limited to, the engine load and speed during each individual test run, and a copy of all calculations generated during data analysis.

(b) Submissions of protocols and reports shall be sent to the Department's Source Testing Section via email to ra-epstacktesting@pa.gov and ra-epncstacktesting@pa.gov or by disk when the file is over 35 MBs.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.100]

The permittee shall submit the results of the semi-annual exhaust gas analyzer testing required by condition #007 herein to the Department within 30 days following the completion of said testing.

VI. WORK PRACTICE REQUIREMENTS.**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.97(c)]

The permittee shall maintain and operate Source P104 in accordance with the manufacturer's specifications and with good operating practices.

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

Source P104 is a 4,000 horsepower Cooper-Bessemer model 10V-275C2 two-stroke, lean burn, natural gas-fired reciprocating internal combustion engine (Engine #4).



SECTION D. Source Level Requirements

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

**SECTION D. Source Level Requirements**

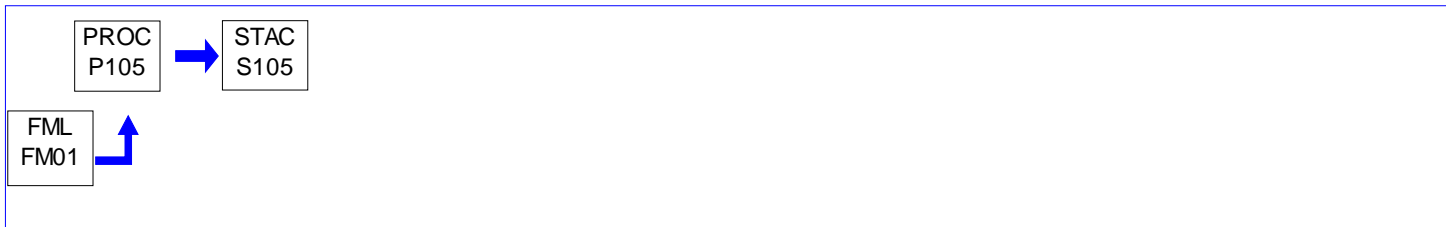
Source ID: P105

Source Name: ENGINE 5 (COOPER)

Source Capacity/Throughput:

N/A

Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

The concentration of particulate matter in the exhaust of Source P105 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

002 [25 Pa. Code §123.21]

General

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

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(g)(3)]

The volatile organic compound emissions from Source P105 shall not exceed 1.0 grams per brake horsepower-hour.

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, 127.12 and 129.97 and 40 CFR 52.21]

(a) The nitrogen oxides (NO_x, expressed as NO₂) emissions from Source P105 shall not exceed 3.0 grams per brake horsepower-hour and 39.7 pounds per hour.

(b) The carbon monoxide emissions from Source P105 shall not exceed 26.46 pounds per hour.

(c) The non-methane hydrocarbon emissions from Source P105 shall not exceed 6.62 pounds per hour.

Operation Hours Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.114]

The permittee shall not operate Source P105 more than 2,800 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) On or before December 31, 2025, the permittee shall perform stack testing on Source P105 to determine the nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide, volatile organic compound and non-methane hydrocarbon emission

**SECTION D. Source Level Requirements**

rates from the respective engine.

(b) All testing shall be performed while Source P105 is operating at full load and full speed using test methods and procedures approved by the Department.

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

(a) The permittee shall perform semi-annual nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide tests on Source P105, using a portable exhaust gas analyzer approved by the Department, during the periods of January 1 through June 30 and July 1 through December 31. The portable gas analyzer testing shall not be less than 5 months or greater than 7 months from the previous portable gas analyzer test.

(b) The reference method source testing required by condition #006 herein may be substituted for this portable analyzer testing on a one-for-one basis (one occurrence of reference method testing may be substituted for one of the every 6-month occurrences of portable analyzer testing).

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

(a) At least 90 days prior to the performance of the testing required by condition #005 herein, the permittee shall submit a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures that will be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all engine process data which will be monitored and recorded during testing.

(b) Submissions of protocols and reports shall be sent to the Department's Source Testing Section via email to rapstacktesting@pa.gov and ra-epncstacktesting@pa.gov or by disk when the file is over 35 MBs.

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

At least 14 days prior to the performance of the testing required by conditions #006 and #007 herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of testing without having been given proper notification.

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.100]

(a) The permittee shall maintain accurate and comprehensive records of the following for Source P105:

(i) the number of hours that Source P105 operated during each month,

(ii) the amount of fuel used in Source P105 during each month,

(iii) the calculations and/or data used to verify compliance with the sulfur oxides, nitrogen oxides, carbon monoxide, volatile organic compound, non-methane hydrocarbon and particulate matter emission limitations for Source P105,

(iv) the results of all testing required by conditions #005 and #006 herein.

**SECTION D. Source Level Requirements**

(b) All records generated pursuant to this condition shall be retained for at least five (5) years and shall be made available to the Department upon request.

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

(a) Within 60 days following the completion of any testing required by condition #006 herein, the permittee shall submit test reports to the Department. This test report shall contain the results of the testing (expressed in pounds per hour), a description of the test methods and procedures actually used for the performance of the testing, copies of all raw test data, copies of all engine process data collected during testing, including, but not necessarily limited to, the engine load and speed during each individual test run, and a copy of all calculations generated during data analysis.

(b) Submissions of protocols and reports shall be sent to the Department's Source Testing Section via email to rapstacktesting@pa.gov and ra-epncstacktesting@pa.gov or by disk when the file is over 35 MBs.

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

The permittee shall submit the results of the semi-annual exhaust gas analyzer testing required by condition #007 herein to the Department within 30 days following the completion of said testing.

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

(a) The permittee shall submit semi-annual reports to the Department listing the following for Source P105:

(i) the number of hours that Source P105 operated during each month of the respective reporting period,

(ii) the amount of fuel used in Source P105 during each month of the respective reporting period,

(iii) the calculations and/or data used to verify compliance with the nitrogen oxides, carbon monoxide, volatile organic compound and non-methane hydrocarbon emission limitations for Source P105 during the respective reporting period.

(b) Each semi-annual report shall be submitted to the Department by no later than September 1 (for the immediately-preceding January 1 through June 30 period) and March 1 (for the immediately-preceding July 1 through December 31 period).

VI. WORK PRACTICE REQUIREMENTS.**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(c)]

The permittee shall maintain and operate Source P105 in accordance with manufacturer's specifications and good operating practices.

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

Source P105 is a 6,000 horsepower Cooper-Bessemer model 12W-330C2 two-stroke, lean burn, natural gas-fired reciprocating internal combustion engine (Engine #5).

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

**SECTION D. Source Level Requirements**

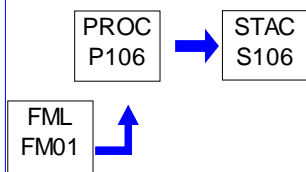
Source ID: P106

Source Name: ENGINE 6 (DRESSER RAND)

Source Capacity/Throughput:

N/A

Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

The concentration of particulate matter in the exhaust of Source P106 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

002 [25 Pa. Code §123.21]

General

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

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1, 127.12, 129.96 and 129.111]

{Compliance with the nitrogen oxide and volatile organic compound emission limitations will assure compliance with the provisions of 25 Pa. Code Sections 129.97(g)(2) and the volatile organic compound emission limit pursuant to 25 Pa. Code Section 129.112(g)(3)(v)(ii)(B)}

(a) The nitrogen oxides (NO_x, expressed as NO₂) emissions from Source P106 shall not exceed 18.5 pounds per hour and 74.00 tons in any 12 consecutive month period.

(b) The volatile organic compound emissions from Source P106 shall not exceed 4.58 pounds per hour and 18.32 tons in any 12 consecutive month period.

(c) The carbon monoxide emissions from Source P106 shall not exceed 25.9 pounds per hour and 103.60 tons in any 12 consecutive month period.

(d) The non-methane hydrocarbon emissions from Source P106 shall not exceed 8.33 pounds per hour and 33.32 tons in any 12 consecutive month period.

Operation Hours 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 Section 129.114]

The permittee shall not operate Source P106 more than 8,000 hours in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.100]

(a) On or before December 31, 2025, the permittee shall perform stack testing on Source P106 to determine the nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide, volatile organic compound and non-methane hydrocarbon emission rates from the respective engine.

(b) All testing shall be performed while Source P106 is operating at full load and full speed using test methods and procedures approved by the Department.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1, 127.12 and 129.100]

(a) The permittee shall perform semi-annual nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide tests on Source P106, using a portable exhaust gas analyzer approved by the Department, during the periods of January 1 through June 30 and July 1 through December 31. The portable gas analyzer testing shall not be less than 5 months or greater than 7 months from the previous portable gas analyzer test.

(b) The reference method source testing required by condition #005 herein may be substituted for this portable analyzer testing on a one-for-one basis (one occurrence of reference method testing may be substituted for one of the every 6-month occurrences of portable analyzer testing).

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

(a) At least 90 days prior to the performance of the testing required by condition #005 herein, the permittee shall submit a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures that will be used in the performance of testing and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all engine process data which will be monitored and recorded during testing.

(b) Submissions of protocols and reports shall be sent to the Department's Source Testing Section via email to ra-epstacktesting@pa.gov and ra-epncstacktesting@pa.gov or by disk when the file is over 35 MBs.

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

At least 14 days prior to the performance of the testing required by conditions #005 and #006 herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of testing without having been given proper notification.

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

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

The permittee shall maintain and operate a predictive nitrogen oxides and carbon monoxide emission monitoring system on Source P106 in accordance with any criteria or requirements accepted by, or established by, the Department.

IV. RECORDKEEPING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.100]

**SECTION D. Source Level Requirements**

- (a) The permittee shall maintain accurate and comprehensive records of the following for Source P106:
- (i) the number of hours that Source P106 operated during each month,
 - (ii) the amount of fuel used in Source P106 during each month,
 - (iii) the calculations and/or data used to verify compliance with the sulfur oxides, nitrogen oxides, carbon monoxide, volatile organic compound, non-methane hydrocarbon and particulate matter emission limitations for Source P106,
 - (iv) the results of all testing required by conditions #004 and #005 herein.
- (b) All records generated pursuant to this condition shall be retained for at least five (5) years and shall be made available to the Department upon request.

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

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

All data generated by the predictive monitoring system for Source P106 which shows emission values in excess of any applicable emission limitation contained in this permit shall be reported to the Department on a calendar quarter basis by no later than June 1, September 1, December 1 and March 1 for the 1st, 2nd, 3rd and 4th quarters, respectively. These quarterly reports shall also identify all periods of source non-operation and all periods of monitoring system non-operation.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

- (a) The permittee shall submit semi-annual reports to the Department listing the following for Source P106:
- (i) the number of hours that Source P106 operated during each month of the respective reporting period,
 - (ii) the amount of fuel used in Source P106 during each month of the respective reporting period,
 - (iii) the calculations and/or data used to verify compliance with the nitrogen oxides, carbon monoxide, volatile organic compound and non-methane hydrocarbon emission limitations for Source P106 during the respective reporting period.
- (b) Each semi-annual report shall be submitted to the Department by no later than September 1 (for the immediately-preceding January 1 through June 30 period) and March 1 (for the immediately-preceding July 1 through December 31 period).

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

- (a) Within 60 days following the completion of any testing required by condition #005 herein, the permittee shall submit reports to the Department. This test report shall contain the results of the testing (expressed in pounds per hour), a description of the test methods and procedures actually used for the performance of the testing, copies of all raw test data, copies of all engine process data collected during testing, including, but not necessarily limited to, the engine load and speed during each individual test run, and a copy of all calculations generated during data analysis.
- (b) Submissions of protocols and reports shall be sent to the Department's Source Testing Section via email to rapstacktesting@pa.gov and ra-epncstacktesting@pa.gov or by disk when the file is over 35 MBs.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

**SECTION D. Source Level Requirements**

The permittee shall submit the results of the semi-annual exhaust gas analyzer testing required by condition #006 herein to the Department within 30 days following the completion of said testing.

VI. WORK PRACTICE REQUIREMENTS.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(c)]

The permittee shall maintain and operate Source P106 in accordance with the manufacturer's specifications and good operating practices.

VII. ADDITIONAL REQUIREMENTS.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source P106 is a 4,200 horsepower Dresser-Rand model TCV-10 two-stroke, lean burn, natural gas-fired reciprocating internal combustion engine (Engine #6).

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Department will require the permittee to install a control device to control the nitrogen oxide or volatile organic compound emissions from Source P106 if the results from the testing determine that the emissions increased from the baseline emission rate of Source P106. Within 60 days after the results of the testing have been approved, by the Department, the permittee will be required to submit a plan approval application for a control device to control the nitrogen oxide and or/ volatile organic compound emissions, if warranted.

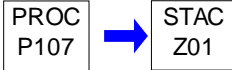
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P107

Source Name: WASTEWATER TANK (FLOOR DRAIN)

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

The combined potential to emit volatile organic compounds from the storage tanks incorporated in Sources P107 and P108 shall never exceed 3 pounds per hour, 15 pounds per day or 2.7 tons in any 12 consecutive month period. Should any of these limitations ever be exceeded, a detailed RACT analysis which meets the criteria specified in 25 Pa. Code Section 129.92 must be submitted to the Department for each storage tank.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

(a) The permittee shall maintain records of the contents of Source P107.

(b) All records generated pursuant to this condition shall be retained for at least five (5) years and shall be made available to the Department upon request.

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

The permittee shall, upon Department request, provide calculations verifying compliance with the volatile organic compound emission limitations established in condition #001 herein.

VI. WORK PRACTICE REQUIREMENTS.

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

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

(a) Source P107 is a 5,000 gallon wastewater/cooling water storage tank (K-1).

**SECTION D. Source Level Requirements**

(b) Source P107 shall only be used to store wastewater or cooling water.

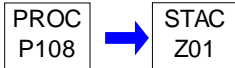
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P108

Source Name: STORAGE TANKS

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

The combined potential to emit volatile organic compounds from the storage tanks incorporated in Sources P107 and P108 shall never exceed 3 pounds per hour, 15 pounds per day or 2.7 tons in any 12 consecutive month period. Should any of these limitations ever be exceeded, a detailed RACT analysis which meets the criteria specified in 25 Pa. Code Section 129.92 must be submitted to the Department for each storage tank.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

(a) The permittee shall maintain records of the contents of each tank incorporated in Source P108.

(b) All records generated pursuant to this condition shall be retained for at least five (5) years and shall be made available to the Department upon request.

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

The permittee shall, upon Department request, provide calculations verifying compliance with the volatile organic compound emission limitations established in condition #001 herein.

VI. WORK PRACTICE REQUIREMENTS.

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

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

(a) Source P108 consists of the following liquid storage tanks:

**SECTION D. Source Level Requirements**

- (i) one (1) 10,000 gallon lube oil storage tank (A-1)
 - (ii) one (1) 2,000 gallon reclaim oil storage tank (A-2)
 - (iii) two (2) 5,000 gallon ethylene glycol storage tanks (B1 and B2)
 - (iv) one (1) 4,000 gallon used oil underground storage tank (E-1)
 - (v) one (1) 2,000 gallon used oil storage tank (E-2)
 - (vi) two (2) 5,000 gallon pipeline fluids storage tanks (P-4 and P-5)
- (b) The storage tanks incorporated in Source P108 shall only be used to store the respective materials identified above.

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

**SECTION D. Source Level Requirements**

Source ID: P110

Source Name: SOLAR MARS, 15,900 BHP TURBINE ENGINE

Source Capacity/Throughput:

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

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

The permittee shall not permit the following air contaminant emissions from the exhaust of ID C110 associated with Source ID P110 in excess of the limitations listed below:

- (a) nitrogen oxides (NO_x, expressed as NO₂) – 32.88 tons in any 12 consecutive month period,
- (b) carbon monoxide (CO) – 16.28 tons in any 12 consecutive month period,
- (c) sulfur oxides (SO_x, expressed as SO₂) - 3.33 tons in any 12 consecutive month period,
- (d) particulate matter (PM/PM10/PM2.5) – 3.90 tons in any 12 consecutive month period,
- (e) non-methane, non-ethane hydrocarbons (NMNEHC) – 3.00 tons in any 12 consecutive month period,
- (f) formaldehyde – 0.09 tons in any 12 consecutive month period,

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

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

[Compliance with this streamlined condition will assure compliance with the requirements of 25 Pa. Code Section 123.21]

The permittee shall not permit the emission of sulfur oxides (SO_x, expressed as SO₂) from the exhaust of ID C110 associated with Source ID P110 in excess of 0.76 pounds per hour while operating in SoLoNO_x mode.

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

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

[Compliance with this streamlined condition assures compliance with the requirements of 25 Pa. Code Section 123.41]

The permittee may not permit the emission of visible air contaminants into the outdoor atmosphere in such a manner that the opacity of the emission is equal to or greater than 10% at any time.

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

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

{Compliance with the nitrogen oxide and volatile organic compound emission limitations will assure compliance with the provisions of 25 Pa. Code Sections 129.97(g)(2) and 129.112(g)(2)(v)(A&B)}

**SECTION D. Source Level Requirements**

(a) The permittee shall not permit the following air contaminant emissions from the exhaust of ID C110 associated with Source ID P110 in excess of the limitations listed below while operating in SoLoNOx mode:

- (1) nitrogen oxides (NOx, expressed as NO₂) – 15 ppm corrected to 15% oxygen and 7.32 pounds per hour,
- (2) carbon monoxide (CO) – 2 ppm corrected to 15% oxygen and 0.60 pounds per hour,
- (3) non-methane, non-ethane hydrocarbons (NMNEHC) – 2 ppm corrected to 15% oxygen and 0.65 pounds per hour,
- (4) formaldehyde – 0.021 pounds per hour.

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

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

[Compliance with this streamlined condition will assure compliance with the requirements of 25 Pa. Code Section 123.13]

The permittee shall not permit the emission of particulate matter (PM/PM₁₀/PM_{2.5}) from the exhaust of ID C110 associated with Source ID P110 in excess of 0.01 grains per dry standard cubic foot of exhaust gas and 0.89 pounds per hour while operating in SoLoNOx mode.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12 and 40 CFR Sections 60.4330 and 60.4360]

The permittee shall only use pipeline-quality, natural gas as fuel for Source ID P110 which has a maximum sulfur content equal to or less than 20 grains per 100 standard cubic foot..

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

{Additional authority for this condition is derived from 40 CFR Section 60.4340}

(a) The permittee shall perform subsequent stack tests on Source ID P110 to determine the nitrogen oxide and carbon monoxide emission rates while operating at peak load on an approximate annual basis, but in each case, no less than 10 months and no more than 14 months following the previous test. If the NOx emission result from the performance test is less than or equal to 75 percent of the NOx emission limit for the turbine, you may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NOx emission limit for Source P110, you must resume annual performance tests.

(b) Additionally, subsequent volatile organic compound and formaldehyde stack tests shall be performed on Source ID P110 while operating at peak load on a triennial basis, but in each case, no less than 34 months and no more than 38 months following the previous test.

a) The performance test shall consist of three (3) separate test runs and each run shall last at least in one (1) hour in duration.

(b) The inlet gas temperature and the pressure drop across ID C110 shall be recorded on a continuous basis during the test.

(c) All testing is to be done using reference method test procedures acceptable to the Department and in accordance with

**SECTION D. Source Level Requirements**

40 CFR Section 60.4400. The testing shall be performed while the turbine-compressor associated with Source ID P110 is operating at peak load (gas producer speed - %NGP)

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

Demonstration of compliance with the emission limitations in Condition #004(a), (b) and (e) for Source ID P110 is based upon emission calculations using the manufacturer's emission data and guarantee for start-up, shutdown and operation in sub-zero ambient conditions.

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

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

Source ID P110 shall be equipped with instrumentation to continuously monitor manufacturer's recommended, operational parameters which will indicate whether Source ID P110 is operating in a SoLoNOx mode.

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

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

The permittee shall equip ID C110 with instrumentation to monitor pressure drop and the inlet gas temperature of ID C110. The permittee shall monitor these parameters on a continuous basis.

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

(a) The permittee shall keep records of the following information:

- (1) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, particulate matter, sulfur oxide, and formaldehyde emission limitations for ID C110 associated with Source ID P110 in any 12 consecutive month period.
- (2) The test reports and supporting calculations used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations from ID C110 associated with Source ID P110.
- (3) The pressure drop across and the inlet gas temperature of ID C110 on a continuous basis via a data acquisition system and shall compute the hourly averages.
- (4) The amount of fuel fired in Source ID P110
- (5) The number of hours that Source ID P110 operated in startups, shutdowns and sub-zero ambient temperatures on a monthly basis.
- (6) The date and time of the monthly inspections, the identification of the inspector, what was inspected, the location of any observed fugitive volatile organic compound/volatile hazardous air pollutant emissions, identification of any corrective action taken to eliminate the observed fugitive emissions and the success, or failure, of the corrective action to eliminate the fugitive emissions.

(b) All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

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

The submission of all requests, reports, applications, submittals and other communications required by the Standards of Performance for New Stationary Sources, 40 CFR Part 60 Subpart KKKK, shall be submitted to both the U. S. Environmental Protection Agency and the Department. The Environmental Protection Agency copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

and

The Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701-6448

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

(a) The permittee shall submit semi-annual reports to the Department which included the following information:

(1) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, particulate matter, sulfur oxide, and formaldehyde emission limitations for ID C110 associated with Source ID P110 in any 12 consecutive month period.

(2) The number of hours that Source ID P110 operated in startups, shutdowns and sub-zero ambient temperatures on a monthly basis.

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

VI. WORK PRACTICE REQUIREMENTS.**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall follow the manufacturer's recommended procedures of start-up and shut-down of Source ID P110.

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

Source ID P110 shall not be depressurized during normal shutdown. Blowdown of Source ID P110 system shall only occur during long term shutdown or for required maintenance or repair.

VII. ADDITIONAL REQUIREMENTS.**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

Source ID P110 is a 15,900 bhp Solar Mars model 100 natural gas-fired turbine engine. Source ID P110 shall incorporate SoLoNOx technology and be equipped with a Universal model 18-510663 oxidation catalyst (ID C110) to control the air contaminant emissions. The permittee shall not operate Source ID P110 without the simultaneous operation of ID C110 at any time.

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

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

**SECTION D. Source Level Requirements**

The permittee shall perform inspections of Source ID P110, the associated compressor and associated piping, etc., at least once per month to verify compliance with fugitive emissions as specified in 25 Pa. Code Section 123.1.

018 [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 operate Source ID P110 in SoLoNOx mode at all times, except for periods in which sub-zero ambient temperatures occur and for periods during start-ups and shutdowns.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P110 is subject to Subpart KKKK of the federal Standards of Performance for New Stationary Source, 40 CFR Sections 60.4300 through 60.4420. The permittee shall comply with all applicable requirements specified in 40 CFR Sections 60.4300 through 60.4420

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P110 shall be equipped with a state-of-the-art torch igniter system to minimize the frequency of false starts.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P110 shall be equipped with pressure safety valves and the permittee shall replace any defective valves immediately upon detection.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P110 shall be equipped with a direct-drive, alternating current (AC) electric start system. The permittee shall not use purge gas during startup of Source ID P110. Additionally, Source ID P110 shall not be vented prior to startup.

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P110 shall be configured to isolate the engine system from the remainder of the facility during blowdown without blowing down the entire facility.

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P110 shall be equipped with a fully automated air/fuel ratio control system.

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

**SECTION D. Source Level Requirements**

Source ID: P111

Source Name: SOLAR TAURUS 70M 11,015 BHP TURBINE ENGINE

Source Capacity/Throughput:

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

[Compliance with this streamlined condition will assure compliance with the requirements of 25 Pa. Code Section 123.13]

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not permit the emission of particulate matter (PM/PM10/PM2.5) from the exhaust of ID C111 associated with Source ID P111 in excess of 0.01 grains per dry standard cubic foot of exhaust gas and 1.35 pounds per hour while operating in SoLoNOx mode.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not permit the following air contaminant emissions from the exhaust of ID C111 associated with Source ID P111 in excess of the limitations listed below:

- (a) nitrogen oxides (NOx, expressed as NO2) – 22.08 tons in any 12 consecutive month period,
- (b) carbon monoxide (CO) – 26.86 tons in any 12 consecutive month period,
- (c) sulfur oxides (SOx, expressed as SO2) - 1.36 tons in any 12 consecutive month period,
- (d) particulate matter (PM/PM10/PM2.5) – 5.90 tons in any 12 consecutive month period,
- (e) total combined volatile organic compounds - 2.15 tons in any 12 consecutive month period,
- (f) non-methane, non-ethane hydrocarbons (NMNEHC) – 1.92 tons in any 12 consecutive month period,
- (g) formaldehyde – 0.23 tons in any 12 consecutive month period,

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

[Compliance with this streamlined condition assures compliance with the requirements of 25 Pa. Code Section 123.41]

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee may not permit the emission of visible air contaminants from the exhaust of ID C111 associated with Source P111 into the outdoor atmosphere in such a manner that the opacity of the emission is equal to or greater than 10% at any time.

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

[Compliance with this streamlined condition will assure compliance with the NOx emission limitation of 25 ppm pursuant to 40 CFR Part 60 Subpart KKKK Section 60.4320(a) and 25 Pa. Code Section 129.112(g)(2)(v)(A&B)]

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not permit the following air contaminant emissions from the exhaust of ID C111 associated with Source ID P111 in excess of

**SECTION D. Source Level Requirements**

the limitations listed below while operating in SoLoNOx mode:

- (1) nitrogen oxides (NOx, expressed as NO₂) – 15 ppm corrected to 15% oxygen and 4.91 pounds per hour,
- (2) carbon monoxide (CO) – 2 ppm corrected to 15% oxygen and 0.40 pounds per hour,
- (3) total combined volatile organic compounds - 0.392 pounds per hour,
- (4) non-methane, non-ethane hydrocarbons (NMNEHC) – 3 ppm corrected to 15% oxygen and 0.34 pounds per hour,
- (5) formaldehyde – 0.052 pounds per hour.

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

[Compliance with this streamlined condition will assure compliance with the requirements of 25 Pa. Code Section 123.21]

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not permit the emission of sulfur oxides (SOx, expressed as SO₂) from the exhaust of ID C111 associated with Source ID P111 in excess of 0.76 pounds per hour while operating in SoLoNOx mode.

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

[Additional authority for this condition is derived from 40 CFR Sections 60.4330 and 60.4360]

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall only use pipeline-quality, natural gas as fuel for Source ID P111 which has a maximum sulfur content equal to or less than 20 grains per 100 standard cubic foot.

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

(a) In addition to the EPA reference method testing required by this operating permit, every 2,500 hours of operation, the permittee shall perform periodic monitoring for NOx and CO emissions to verify that the combustion turbine is in compliance with the BAT requirements established herein. If an EPA reference method test has been performed within 45 days prior to the scheduled periodic monitoring, the EPA reference method test may be used in lieu of the periodic monitoring for that time period.

(b) A portable gas analyzer shall be used to satisfy the requirements of this condition utilizing three 20-minute test runs. The Department may alter the frequency of portable analyzer tests based on the results. The portable gas analyzer shall be maintained according to the manufacturer's specifications and the procedures specified in ASTM D 6522 or equivalent as approved by the Department.

(c) Within thirty (30) calendar days after the completion of periodic monitoring for NOx and CO emissions using a portable analyzer, the permittee shall submit the results to the Department. The Department reserves the right to require performance tests in accordance with EPA reference test methods should the data from the portable analyzer warrant such tests.

(d) Submissions of protocols and reports shall be sent to the Department's Source Testing Section via email to ra-epstacktesting@pa.gov and the Regional Office at ra-epncstacktesting@pa.gov or by disk when the file is over 35 MBs.

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

{Additional authority for this condition is derived from 40 CFR Section 60.4340}

**SECTION D. Source Level Requirements**

The permittee shall perform subsequent stack tests on Source ID P111 to determine the nitrogen oxide and carbon monoxide emission rates while operating at peak load on an approximate annual basis, but in each case, no less than 10 months and no more than 14 months following the previous test. Additionally, subsequent volatile organic compound and formaldehyde stack tests shall be performed on Source ID P111 while operating at peak load on a triennial basis, but in each case, no less than 34 months and no more than 38 months following the previous test.

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

(a) At least 90 days prior to the performance of any testing required herein, the permittee shall submit two (2) copies of a pretest protocol to the Department for review in accordance with the provisions of 25 Pa. Code Chapter 139. The protocol shall describe the test methods and procedure to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also describe how the peak load and heat input will be determined during each test run, and also identify all other process data which will be monitored and recorded during testing including oxidation catalyst temperatures in addition to the appropriate operational parameters which will indicate SoLoNOx mode operation including gas producer speed (%NGP) with description of basis for selecting the operational parameters and any target value.

(b) The Department shall be given at least 14 days advance notice of the scheduled dates for the performance of any testing required herein. The Department is under no obligation to accept the results of any testing performed without receipt of proper notification.

(c) Within 60 days of the completion of any stack testing required herein, a test report shall be submitted to the Department in accordance with the provision of 25 Pa. Code Chapter 139. This test report shall contain the results of the testing, a description of the test methods and procedures actually used in the performance of the tests, copies of all process data collected during the testing, copies of all raw test data and copies of all calculations generated during data analysis. The results of the testing shall be expressed in units which allow for a direct comparison and determination of compliance, with the air contaminant emissions limitations contained herein. Additionally, the permittee shall propose the ranges for oxidation catalyst temperatures that demonstrates compliance with the limitations described above, and shall propose the appropriate operational parameters ranges that will assure Source ID P111 is operating in SoLoNOx mode. Any proposed operational parameter range(s) shall be based on an engineering assessment of the shakedown/testing data and manufacturer's suggested ranges.

(d) Submissions of protocols and reports shall be sent to the Department's Source Testing Section via email to ra-epstacktesting@pa.gov and the Regional Office at ra-epncstacktesting@pa.gov or by disk when the file is over 35 MBs.

III. MONITORING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall equip ID C111 with instrumentation to monitor pressure drop and the inlet gas temperature of ID C111. The permittee shall monitor these parameters on a continuous basis.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, Source ID P111 shall be equipped with instrumentation to continuously monitor manufacturer's recommended, operational parameters which will indicate whether Source ID P111 is operating in a SoLoNOx mode.

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

(a) The permittee shall keep records of the following information:

(1) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, particulate matter, sulfur oxide, and formaldehyde emission limitations for ID C111 associated

**SECTION D. Source Level Requirements**

with Source ID P111 in any 12 consecutive month period in both SoLoNOx and non-SoLoNOx operating modes.

(2) The test reports and supporting calculations used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, and formaldehyde emission limitations from ID C111 associated with Source ID P111.

(3) The pressure drop across and the inlet gas temperature of ID C111 on a continuous basis via a data acquisition system and shall compute the hourly averages.

(4) The amount of fuel fired in Source ID P111

(5) The number of hours that Source ID P111 operated in startups, shutdowns and sub-zero ambient temperatures on a monthly basis.

(6) The date and time of the monthly inspections, the identification of the inspector, what was inspected, the location of any observed fugitive volatile organic compound/volatile hazardous air pollutant emissions, identification of any corrective action taken to eliminate the observed fugitive emissions and the success, or failure, of the corrective action to eliminate the fugitive emissions.

(b) All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The submission of all requests, reports, applications, submittals and other communications required by the Standards of Performance for New Stationary Sources, 40 CFR Part 60 Subpart KKKK, shall be submitted to both the U. S. Environmental Protection Agency and the Department. The Environmental Protection Agency copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

and

The Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701-6448

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

(a) The permittee shall submit semi-annual reports to the Department which included the following information:

(1) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide, volatile organic compound, particulate matter, sulfur oxide, and formaldehyde emission limitations for ID C111 associated with Source ID P111 in any 12 consecutive month period in both SoLoNOx and non-SoLoNOx operating modes.

(2) The number of hours that Source ID P111 operated in startups, shutdowns and sub-zero ambient temperatures on a monthly basis.

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

VI. WORK PRACTICE REQUIREMENTS.**# 015 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

**SECTION D. Source Level Requirements**

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall follow the manufacturer's recommended procedures of start-up and shut-down of Source ID P111.

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

Source ID P111 shall not be depressurized during normal shutdown. Blowdown of Source ID P111 system shall only occur during long term shutdown or for required maintenance or repair.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, Source ID P111 is a 11,015 bhp Solar Taurus model 70 natural gas-fired turbine engine. Source ID P111 shall incorporate SoLoNOx technology and be equipped with a Universal model R24.750x24.750x1.713-260C1 oxidation catalyst (ID C111) to control the air contaminant emissions. The permittee shall not operate Source ID P111 without the simultaneous operation of ID C111 at any time.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall perform inspections of Source ID P111, the associated compressor and associated piping, etc., at least once per month to verify compliance with fugitive emissions as specified in 25 Pa. Code Section 123.1.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall operate Source ID P111 in SoLoNOx mode at all times, except for periods in which sub-zero ambient temperatures occur and for periods during start-ups and shutdowns for the operation of the engine in non-SoLoNOx mode.

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

Source ID P111 is subject to Subpart KKKK of the federal Standards of Performance for New Stationary Source, 40 CFR Sections 60.4300 through 60.4420. The permittee shall comply with all applicable requirements specified in 40 CFR Sections 60.4300 through 60.4420

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

Source ID P111 shall be equipped with a direct-drive, alternating current (AC) electric start system. The permittee shall not use purge gas during startup of Source ID P111. Additionally, Source ID P111 shall not be vented prior to startup.

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

Source ID P111 shall be equipped with a state-of-the-art torch igniter system to minimize the frequency of false starts.

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

Source ID P111 shall be equipped with pressure safety valves and the permittee shall replace any defective valves immediately upon detection.

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

Source ID P111 shall be configured to isolate the engine system from the remainder of the facility during blowdown without blowing down the entire facility.

**SECTION D. Source Level Requirements**

025 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P111 shall be equipped with a fully automated air/fuel ratio control system.

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

**SECTION D. Source Level Requirements**

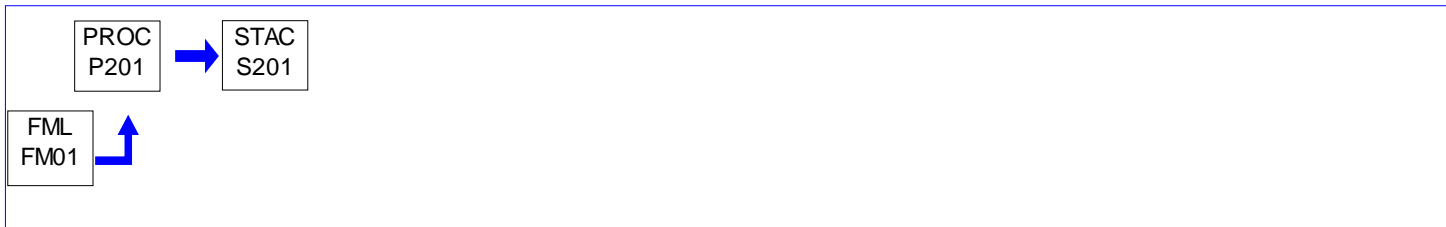
Source ID: P201

Source Name: AUX POWER UNIT 1

Source Capacity/Throughput:

N/A

Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

The concentration of particulate matter in the exhaust of Source P201 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides (SO_x, expressed as SO₂) from Source P201 in such a manner that the concentration of sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Operation Hours 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 Sections 127.1, 127.12 and 129.91]

{Compliance with the nitrogen oxide and volatile organic compound emission limits in this permit condition assures compliance with the presumptive emissions limits as specified in 25 Pa. Code Section 129.112(g)(3)(i)(A&B)}

(a) The nitrogen oxides (NO_x, expressed as NO₂) emissions from Source P201 shall not exceed 3.43 pounds per hour.

(b) The volatile organic compound emissions from Source P201 shall not exceed 0.68 pounds per hour.

(c) The carbon monoxide emissions from Source P201 shall not exceed 2.22 pounds per hour.

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, 127.12 and 129.91]

Source P201 shall not be operated for non-emergency purposes in excess of 250 hours 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 (Title V General Requirements).

III. MONITORING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

(a) The permittee shall maintain accurate and comprehensive records of the following for P201:

(i) the total number of hours that Source P201 operated during each month,

(ii) the number of non-emergency hours that Source P201 operated during each month,

(iii) the calculations and/or data used to verify compliance with the sulfur oxides, nitrogen oxides, carbon monoxide, volatile organic compound and particulate matter emission limitations for Source P201,

(b) All records generated pursuant to this condition shall be retained for at least 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.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

(a) The permittee shall submit semi-annual reports to the Department listing the following for Source P201:

(i) the total number of hours that Source P201 operated during each month of the respective reporting period,

(ii) the number of non-emergency hours that Source P201 operated during each month of the respective reporting period,

(iii) the calculations and/or data used to verify compliance with the nitrogen oxides, carbon monoxide and volatile organic compound emission limitations for Source P201 during the respective reporting period.

(b) Each semi-annual report shall be submitted to the Department by no later than September 1 (for the immediately-preceding January 1 through June 30 period) and March 1 (for the immediately-preceding July 1 through December 31 period).

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 Section 129.97(c) and 129.112(c)]

The permittee shall maintain and operate Source P201 in accordance with the manufacturer's specifications and good operating practices.

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

Source P201 is an 823 horsepower Caterpillar model 3512-STD 4-stroke, lean burn, natural gas-fired auxiliary generator.

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

**SECTION D. Source Level Requirements**

Source ID: P203

Source Name: 791 BHP EMERGENCY GENERATOR

Source Capacity/Throughput:

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

[Compliance with this plan approval condition assures compliance with the emission limitations pursuant to 40 CFR Part 60 Subpart JJJJ Section 60.4233(c) and the presumptive nitrogen oxide and volatile organic compound emissions limits as specified in 25 Pa. Code Section 129.112(g)(3)(i)(A&B)]

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not permit the following air contaminant emissions from the exhaust of ID C203 associated with Source ID P203 in excess of the limitations listed below:

- (a) nitrogen oxides (NO_x, expressed as NO₂) - 0.35 pounds per hour and 0.09 tons in any 12 consecutive month period,
- (b) carbon monoxide (CO) - 0.52 pounds per hour and 0.13 tons in any 12 consecutive month period,
- (c) total combined volatile organic compounds (VOC) - 0.35 pounds per hour and 0.09 tons in any 12 consecutive month period.

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

[Compliance with this streamlined condition will assure compliance with the requirements of 25 Pa. Code Section 123.21]

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not permit the emission of sulfur oxides (SO_x, expressed as SO₂) from the exhaust of ID C203 associated with Source ID P203 in excess of 0.003 pounds per hour.

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

[Compliance with this streamlined condition will assure compliance with the requirements of 25 Pa. Code Section 123.13]

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not permit the emission of particulate matter from the exhaust of ID C203 associated with Source ID P203 in excess of 0.01 grains per dry standard cubic foot of exhaust gas, 0.12 pounds per hour and 0.03 tons in any 12 consecutive month period.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall only use pipeline-quality, natural gas as fuel for Source ID P203.

**SECTION D. Source Level Requirements****Operation Hours Restriction(s).****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this plan approval condition is derived from 40 CFR Part 60 Subpart JJJJ Section 60.4243]

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, Source ID P203 is an emergency generator and shall not be operated greater than 500 hours in any 12 consecutive month period, to which the source shall not be operated no more than 50 hours for non-emergency operation 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 (Title V General Requirements).

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, Source ID P203 shall be equipped with a non-resettable hour meter to monitor the number of hours that the engine is operated.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall equip ID C203 with instrumentation to monitor pressure drop and the inlet gas temperature of ID C203. The permittee shall monitor these parameters on a continuous basis.

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

(a) The permittee shall keep records of the following information:

(1) The number of hours that Source ID P203 is operated in both emergency and non-emergency situations on a monthly basis.

(2) The supporting calculations on a monthly basis used to verify compliance with the nitrogen oxide, carbon monoxide and volatile organic compound emission limitations for ID C203 associated with Source ID P203 in any 12 consecutive month period.

(3) The test reports and supporting calculations used to verify compliance with the nitrogen oxide, carbon monoxide and volatile organic compound emission limitations from ID C203 associated with Source ID P203.

(4) The pressure drop across and the inlet gas temperature of ID C203 on a continuous basis via a data acquisition system and shall compute the hourly averages.

(b) All records generated pursuant to this condition 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 (Title V General Requirements).

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

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

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, Source ID P203 is a 791 brake-horsepower, Caterpillar model G3512TA, 4-stroke, rich burn (4SRB) natural gas-fired emergency generator set and shall be equipped with an Universal model EnviCat-7360-23.5x3.5x1 three-way catalytic converter (Control Device ID C203) to control the NO_x, CO and VOC emissions.

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

Source ID P203 is subject to the requirements of 40 CFR Part 60 Subpart JJJJ Sections 60.4230 through 60.4248. The permittee shall comply with all applicable requirements of Subpart JJJJ of the New Source Performance Standards (NSPS) for Source ID P203 as specified in 40 CFR Sections 60.4230 through 60.4248

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



SECTION E. Source Group Restrictions.

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Title V facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.



SECTION H. Miscellaneous.

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

- (a) one (1) Trane radiant space heater (less than 0.10 million Btu per hour) located in the office building.
- (b) one (1) 0.034 million Btu per hour natural gas-fired hot water heater.
- (c) three (3) emergency gas blowdown units.

This operating permit was renewed on June 18, 2013.

This operating permit was administratively amended on September 26, 2014, to incorporate the terms and conditions of Plan Approval 18-00005D.

This operating permit was modified to remove the conditions pertaining to the Cold Ambient Fuel Control Logic and increase in the annual nitrogen oxide, carbon monoxide and volatile organic compound emission limitations for Source ID P110



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